Texas Course Catalog

January 2018 to March 2019

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www.Hackreactor.com

HACK REACTOR

Texas Campus Location

Hack Reactor Austin
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Phone: (737) 207-9062
Email: info@hackreactor.com

As a prospective student, you are encouraged to review this Course Catalog prior to signing an enrollment agreement. You are also encouraged to review the school's outcomes as reviewed by the Texas Workforce Commission. The school's outcomes metrics, as measured by Hack Reactor, are currently available at www.hackreactor.com/outcomes.

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The Hack Reactor Story

Our Mission

Hack Reactor is an advanced immersive Javascript training school that produces exceptional software engineers with a skill set built for top engineering teams. During twelve (12) weeks of instruction, students acquire the skills necessary to gain employment in the software engineering field. While attending Hack Reactor, students learn Javascript, Computer Science ("CS") fundamentals, and engineering best practices. The curriculum is intended for students who've dedicate many hours to self-study before beginning the rigorous application process for Hack Reactor. The program is designed for students who understand the basics and have demonstrated their programming abilities during the application process.

Hack Reactor differentiates itself from other bootcamps by its commitment to instructional rigor, data-driven improvement, and relentless student support. The needs of both employers and students transcend the limitations of the university system. Curriculum is designed to prepare students for the fast-paced software engineering world requires constant revision and improvement in order to stay current. Hack Reactor graduates are workforce-ready engineers that get hired by great companies at highly competitive salaries.

Hack Reactor focuses on the same fundamental skillset that academic CS degrees teach: rigorous thinking, algorithmic design and analysis, and data structures. We employ experienced industry experts with solid fundamental skillsets to ensure students are not stuck debugging code in a lab for hours. Unlike the university educational paradigm, we cover the core tools and industry practices – debuggers, software testing, and version control – that accelerate educational progress. Our students build complex software applications from low-level toolkits: bittorrent clients, interpreters, database middleware, and distributed computing frameworks. After course completion, they pass through challenging interview screens that most CS graduates cannot and secure jobs in the industry.

Our Values & Commitment

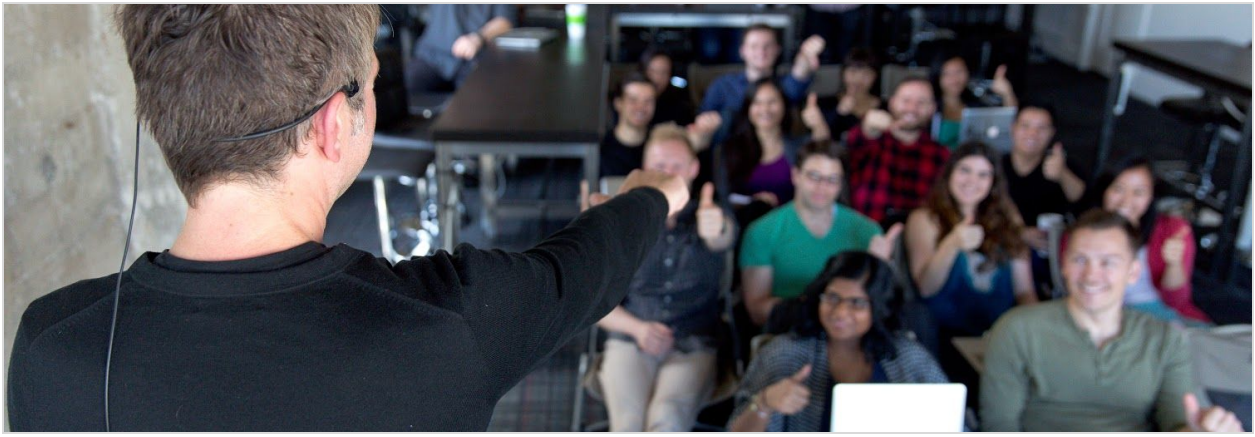
Hack Reactor is challenging and intense but our staff and the community are here to help everyone on their growth journey. Our core values are rooted in building a strong, caring community dedicated to the transformative success of every student. We are committed and inspired to fostering the future of education through outcomes-focused learning so every student can achieve their career goals.

Our History

Hack Reactor was started in late 2012 in San Francisco as an answer to the rising demand for world class software engineers. The program is built for helping students become exceptional, market-demanded full stack software engineers through an intense, advanced Javascript immersive program. What started with a cohort of 16 students in San Francisco has now grown into a nationwide network with thousands of alumni and hundreds of students graduating every year. In early 2015, Hack Reactor acquired MakerSquare which expanded the network to include the first MakerSquare campus in Austin, Texas (opened in 2013). Since the merger, we've opened a campus in Los Angeles (June 2015) and New York City (June 2016) and continue to offer best-in-class software engineering education.

Course and Instruction

Our program builds expertise in a curated suite of technologies and concepts, each selected for their workplace utility and relevance to modern software engineering paradigms. Students learn new concepts, then immediately reinforce that knowledge by using it to build and test real software. Each lesson builds up to the next, as students grow into Software Engineers with a robust technical and professional skillset.



Real-World Problem Solving and Collaboration

Students begin with the Pre-Course material, which provides a strong handle on the Javascript fundamentals necessary to master the language and pick up more advanced skills during the the program. Students learn through a finely tuned sequence of targeted lectures, structured assignments, and collaborative projects designed to emulate life on a real-world engineering team. For much of the program, students work collaboratively to complete two-day "sprints", working in pairs to reduce coding errors, and foster the type of collaboration and empathetic communication that employers expect of strong Engineers.

The curriculum has a strong focus on all of the skills required of Software Engineers today, including effective communication, workflow management, product development and implementation, application deployment, and team dynamics. The curriculum is crafted to simulate a real job environment, exposing students to broken tests, incomplete documentation and other surprises that give them experience with the sorts of real-world challenges that many Engineers only encounter late in their careers.

Dynamic Curriculum

Our curriculum is constantly evolving in response to feedback from employers and alumni, while holding true to the principal goal of graduating Software Engineers who are

able to quickly and independently learn any new technologies, languages or tools that the task at hand requires, even those they've never been exposed to before. By the second half of the course, students have honed the ability to thrive within the constantly shifting software engineering landscape, frequently working on projects based on technologies not explicitly covered in our curriculum. Students at Hack Reactor learn how to adapt to the demands of any situation faster and more effectively than they ever could prior to attending the program. The program culminates in professional development training, so that students have the ability to articulate their skills to employers and negotiate multiple job offers.

Job Placement Services

Beyond technical training, Hack Reactor strives to help students shape their career path after graduation. The Student Outcomes team helps students perfect their resumes, develop and practice exceptional presence and interviewing skills, and provides job-seeking advice after graduation. The Corporate Partnerships team has built relationships with major employers around the country providing opportunities for our graduates and alumni to interview with top engineering teams.

Although placement assistance service is provided, the school cannot guarantee a job to any student or graduate. While Hack Reactor does not guarantee any job, credential, salary, or bonus for any graduate, we note that our "gainfully employed" graduates tend to fall under the U.S. Department of Labor Standard Occupational Classification (SOC) 15-1130 Software Developers and Programmers. To find out more about these codes, please visit this page: https://www.bls.gov/soc/2010/soc151130.htm

Student Services & Resources

Hack Reactor will provide students with instructional demonstrations, mentoring, support and guidance relating to Javascript, HTML, CSS, engineering principles and best practices including testing, version control and building a portfolio. We provide all the resources needed to succeed in our program. Slide lectures are published for each student to be able to access and reference at any time during the program. Hack Reactor uses online data management systems that students can access from anywhere over the internet. Our instructors are available for students to reach out to for further questions, and we have Hackers in Residence who assist with any clarifications and exercises.

Standards for Student Achievement

This is a serious course for serious students. We expect students to work hard, act professionally and ask for help as needed. The program curriculum is divided into topical sprints, usually lasting anywhere from 1-3 days each. These sprints incorporate exercises that help cement the concepts reviewed in lectures and assignments. We use assessments at the end of each sprint to monitor progress. If a student cannot pass the assessments, we will do everything we can to give them support, guidance, and further instruction. But, ultimately, assessments will determine whether a student graduates. Instructors will communicate guidelines to individual students during the course of the program explaining what in particular would be expected of them given these and other factors.

Technical Skills

The program features periodic self-assessments that are tested by an automated system and then reviewed and graded by instructional staff. The system identifies students that may be having technical difficulties encouraging them to set up office hours with instructional staff. Additionally, staff will proactively monitor student results and reach out to provide feedback and help students refine their technical strategies.

The Technical Assessment is a full-day coding challenge at the halfway point of the Program that tests the knowledge and skills developed in the first half of the course. It is a significant portion of the gating Summary Evaluation, which means failure to perform sufficiently on the Technical Assessment could result in removal from the course.

Soft skills
Students are regularly graded on a *"[no] reason for concern"* basis by staff observing students as they collaborate. Students with multiple "reason for concern" notes will be approached with feedback and areas for improvement.

Summary Evaluation
The Summary Evaluation is a midterm evaluation of proficiency in the course, largely centered around the question "Would Hack Reactor hire this person onto one of our teams?" The Summary Evaluation takes into consideration technical proficiency, ability to successfully collaborate with pairs and groups, as well as student engagement with classroom requirements and expectations. The Summary Assessment gates participation in the second half of the course.

Assessment Frequency and Evaluation
Assessments are typically performed at the end of each 1-3 day sprint. Students' technical proficiency and soft skills are evaluated constantly and instructional staff meet weekly to review individual student progress. Progress reporting typically occurs at the end of a sprint by way of self assessments and directed feedback from staff.

Students receive a detailed testing analysis of their code from Spectator, our self-assessment tool as well as individualized feedback from instruction staff throughout the program. Students receive a copy of their marks via email, with a red (X) indicating incorrect answers. Students are encouraged to schedule check-ins with technical staff as needed. Scoring a 2 or above on a 0-3 scale for all self-assessments demonstrates satisfactory technical progress.

Hack Reactor instructional staff conduct student evaluations, concerning the student's project completion, assessment performance, emotional health, and daily attendance in real time. A student who is struggling with the technical aspects of the Program may be offered remedial instructional exercises at any point of the program. If the student is unable to demonstrate an ability to achieve satisfactory progress thereafter, their enrollment may be separated, or they may be offered to re-enroll in a different cohort, repeating a portion of the program. This is largely determined by an independent evaluation of the student's technical and soft skill capabilities. Separated students are provided a refund per our refund policy and may reapply to the program. They may be readmitted as a new student if they are able to demonstrate a clear understanding of the foundational concepts required for admission.

Program Expectations

This is going to be an amazing ride, but we need to set up some Expectations before we start in order to make sure everyone is able to work in a safe, productive environment.

1. Be on time - We need to start promptly. This means being ready to *start* on time, not just being present in the classroom container.
2. Be present - Because of our condensed schedule, missing a day is going to put you far behind. We understand that in some rare circumstances someone might need to miss a day, but we request that you let us know ahead of time when possible and have a really compelling reason. An absent member disrupts the cohesion of our classroom container so much that if a student misses more than 2 days during the course, we will discuss with the student whether learning goals can still be achieved. In some cases, absence may lead to withdrawal from the program.
3. Be good students - This is a serious course for serious students. We need you to work hard and ask for help when you need it. We use assessments to monitor progress and, if you cannot pass the assessments, we will do everything we can to give you more support and instruction. But, ultimately, your assessments will determine whether you progress to graduation or not. If you cannot pass the assessments, you may be withdrawn from the program.
4. Be respectful - We are going to be around each other for many very intense weeks. It is therefore really important that we go out of our way to make each other comfortable. Belittling, aggressive, sexist, racist, or discriminatory language has no place in our learning environment.
5. Have a good attitude - At times, you may feel ahead of other students. At other times you may feel behind other students. However, we request that you keep a positive, engaged, and motivated attitude. The instructors are available to discuss any situation in which someone feels that their own or someone else's attitude is affecting their own or someone else's learning. We will do our best to help.
6. No drinking - You can't drink here and you can't party here.
7. Guest policy (onsite immersive only) - We understand that you may want to bring friends or mentors to the space. We ask that you let us know ahead of time and check if it fits with the class schedule. Please do not invite 'drop in' guests.
8. Be open and willing - Hack Reactor is not like most educational experiences and we're going to ask that you bring an open mind and a good attitude to everything we do together. If you're not sure why we're doing things in a certain way, please

let us know, but be prepared to be on board with a plan that you don't fully understand. Trust us.

9. Take care of yourself - We don't want you to burn out. Raise red flags with staff early if you feel like you are struggling or overwhelmed. Take care of your body, be healthy.
10. Take care of space (onsite immersive only) - All of us need to be respectful of the space and make sure that we are keeping it clean and enjoyable to be in.

We look forward to a really productive and educational course! If you feel that you cannot agree to any of the above, let us know and let's talk about it. Should a student violate any of the Expectations, that student may need to be removed from the class. If there is anything else that is not in this document that you think is important to your learning environment, please come and talk to us. Your learning is our highest priority.

Academic Policies

We want to make sure students have all the requisite analytical tools and skills to succeed at Hack Reactor. Our academic policies aim to ensure students are fully prepared for the pace and depth of the program before it begins.

Admissions Policy

Hack Reactor is not a program for beginners. Our admissions process requires preparation and hard work. Students must provide proof of completion of secondary education, including without limitation, a copy of a high school diploma, passing results from the HSE/TASC (High School Equivalency/Test Assessing Secondary Completion) or GED exam or proof of issuance of a college degree. Students unable to provide adequate proof of completion of secondary education may need to complete an Ability-to-Benefit examination. Additionally, all students will need to demonstrate a base knowledge of Javascript fundamentals before starting our program. To test this, we conduct technical interviews with all candidates prior to acceptance, and require the completion of a rigorous pre-course curriculum. Hack Reactor does not require or accept credits earned at other institutions or through challenge examinations and achievement tests. Hack Reactor has not entered into any articulation or transfer agreements with other colleges or universities.

Non-US Citizen Students

Students with a non-US Citizen status will be treated equally through the application and interview process, however Hack Reactor is unable to provide visa services for any

students, including vouching for student status and any associated charges. Hack Reactor is unable to provide financing to non-US Citizens at this time.

English Proficiency Requirement

All instruction and coursework will be in English. Hack Reactor will require documentation as proof of English language proficiency, as translation services will not be provided. We require English fluency as established by our Admissions staff and technical assessment. Please note that no external qualification (e.g. TOEFL, IELTS) will be considered in lieu of our individual assessment.

Academic Intervention and Dismissal Policy

Hack Reactor is a fast-paced, rigorous and intensive program offered over a condensed period of time. If a student is unable or unwilling to meet expectations, or achieve satisfactory progress during any portion of the program, Hack Reactor will conduct an evaluation of the student's assessments and soft skills and determine whether academic intervention is warranted. Intervention may include remedial coursework, increased frequency of staff counseling or an opportunity to defer to restart the program in an upcoming cohort.

Academic Intervention is discretionary and may not be available in every scenario. Under circumstances where Hack Reactor determines that Academic Intervention would not successfully address the student's academic deficiencies, the student may be dismissed from the Program and offered a refund as required by law. In addition, a student may be dismissed for academic dishonesty or any violation of Hack Reactor's behavior, attendance or sexual harassment and misconduct policies.

Attendance Policy

Hack Reactor's program is immersive, so missing a single day of instruction is highly likely to impede a student's academic success. We understand that absence is sometimes unavoidable, but we request that students let us know ahead of time when possible and have a really compelling reason. An absent student disrupts the cohesion of our classroom container so much that missing more than two days during the course, will trigger a discussion with the student about whether their learning goals can still be achieved. In some cases, excessive absences may lead to removal from the class, in other cases, Academic Intervention may be required to continue. With that in mind, an absence counts as three (3) points, a tardy is one (1) point and leaving early is one (1)

point. Students enrolled in our full-time immersive programs are allowed a maximum of nine (9) attendance points.

Leave-of-Absence Policy
A student may request a leave-of-absence once for a period of time no less than one (1) week and up to a maximum of thirty (30) days. This request may be only for unavoidable reasons or extenuating circumstances. A request must be made in writing to the campus Director prior to the leave-of-absence, unless circumstances make this impossible. Requests may be emailed to atx.communication@hackreactor.com.

The request will then be evaluated by the campus Director and the student will be notified of the outcome of their request by email. A student who is granted a leave-of-absence will be assessed upon their return and assigned a new completion date. If a student does not return after the time granted through their leave-of-absence they will be removed from the program and a refund will be issued using the proscribes refund calculation form. The refund determination for a student failing to return from a leave of absence is the last date of attendance.

Retention of Student Records
We use multiple software applications to create and maintain student records. Through the application and interview process, we use Salesforce to store our records. These records are stored and remain in our possession **indefinitely**. Throughout the program students work with GitHub for source & version control and Asana for project management. Access to these materials is provided to students throughout the program and afterwards, during their job search.

Student Housing
Hack Reactor is a non-residential program and does not own, operate, or affiliate with any dormitory or housing facilities and providers. We do not claim any responsibility to provide or to assist with finding housing for students. For reference, our campuses are located nearby and convenient to municipal public transit. Most of our students live within close proximity to public transit stations within the metropolitan area where our campuses are located. Local housing costs are high and they change rapidly. Please conduct independent research to gain up-to-date knowledge and understanding.

Student Rights

The US constitution guarantees the most important basic rights, which every student should understand before enrolling in our program. In addition to these, students have the following rights:

- Students have the right to equal opportunity education and non-discrimination based on sex, race, color, religion, ancestry, national origin, disability, medical condition, genetic information, marital status, sexual orientation or other categories protected by law of the states in which we operate.
- Students have the right to cancel or withdraw from their course, per Hack Reactor's Cancellation, Withdrawal and Refund Policy.
- Students have the right to file a grievance, per Hack Reactor's Grievance Procedure.

Grievance Procedure

If at any time at Hack Reactor a student feels their rights have been violated, they can file a grievance by emailing grievances@hackreactor.com. We would like to hear from students about any problems that arise, and any way we can improve and make their time here more enjoyable. This e-mail address is monitored by academic leadership of the school and is powered by technology allowing us to audit the responses of academic and administrative staff alike to student requests. Students may also contact state regulators with any grievances. Regulatory information is provided at the end of this catalog.

Sexual Harassment and Misconduct Policy

Hack Reactor seeks to ensure that no students or employees are excluded from participation, or denied the benefits of, any Hack Reactor program or activity on the basis of sex. Members of Hack Reactor's community have a right to be free from sexual harassment, violence and gender-based harassment. When an allegation of sexual misconduct is investigated, and a responding community member is found to have violated an applicable federal, state, or local law or ordinance/regulation or to have engaged in other inappropriate conduct, discipline or corrective measures may be imposed.

Purpose
Hack Reactor has established the procedures outlined in this Policy for the purposes of: (1) educating and promoting awareness of Hack Reactor's policies against sexual harassment and misconduct; (2) provide all members of Hack Reactor's community with a process for promptly reporting any concerns regarding potential sexual harassment or related inappropriate conduct; and (3) provide guidelines for prompt and effective responses to any reports of sexual harassment.

Notice of Non-Discrimination
Hack Reactor prohibits discrimination on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age for individuals over 40 years of age, military and veteran status, sexual orientation, or any other basis protected by federal, state, or local law or ordinance or regulation. For questions about discrimination, please contact the licensed Director via email.

Policy Statement
Hack Reactor is committed to providing a learning environment free of unlawful harassment. Hack Reactor prohibits sexual harassment and harassment based on race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age for individuals over 40 years of age, military and veteran status, sexual orientation, or any other basis protected by federal, state, or local law or ordinance or regulation. All such harassment will not be tolerated.

Hack Reactor will respond promptly and effectively to reports of Sexual Misconduct as defined herein and will take appropriate action to prevent, to correct, and when necessary, to discipline behavior that violates this Policy.

Scope of Policy
This policy applies regardless of the complainant's or respondent's sexual orientation, sex, gender identity, age, race, nationality, religion or ability. Hack Reactor's anti-harassment policy applies to all persons involved in the operation of Hack Reactor and prohibits unlawful harassment and retaliation by any student or employee of Hack Reactor and/or any other third party or guest doing business or providing services on campus (e.g. contractors and vendors). Hack Reactor also prohibits unlawful harassment

based on the perception that anyone has any of those characteristics, or is associated with a person who has or is perceived as having any of those characteristics

Conduct by a Hack Reactor employee that constitutes Sexual Misconduct in violation of the Policy is considered to be outside the normal course and scope of employment.

Prohibited Acts
Hack Reactor strives to provide an educational, employment, and business environment free of all forms of sex discrimination, including, but not limited to unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting Sexual Misconduct as defined in this Policy, the Employee Handbook, and otherwise prohibited by federal, state, or local law or ordinance or regulation.

Harassing Behavior
Harassing behavior includes, but is not limited to:

- Verbal conduct such as threats, epithets, derogatory comments, or slurs;
- Visual conduct such as derogatory posters, photographs, cartoons, drawings, or gestures;
- Physical conduct such as assault, unwanted touching, or blocking normal movement;
- Retaliation for reporting harassment or threatening to report harassment.

Gender Identity or Sexual Orientation Discrimination
Harassment that is not sexual in nature but is based on gender, gender identity, sex or gender stereotyping, or sexual orientation is also prohibited by Hack Reactor's nondiscrimination policies if it denies or limits a person's ability to participate in or benefit from the education programs, employment, or services. While discrimination based on these factors may be distinguished from sexual harassment, these types of of discrimination may contribute to the creation of a hostile work or academic environment. Thus, in determining whether sexual harassment exists, Hack Reactor may take into account acts of discrimination based on gender, gender identity, sex or gender stereotyping, or sexual orientation.

Reporting Discrimination, Harassment, and Retaliation
Hack Reactor's complaint procedure provides for an immediate, thorough, and objective investigation of any claim of unlawful or prohibited discrimination, harassment, or

retaliation; appropriate action against one found to have engaged in any such conduct; and, appropriate remedies for any victim of any such conduct. A claim of discrimination, harassment, or retaliation may exist even if the student has not lost some academic or economic benefit. Complaints received will be treated confidentially, to the extent possible; responded to in a timely fashion; investigated promptly and thoroughly by impartial and qualified personnel; documented and tracked to ensure reasonable progress; met with appropriate and prompt corrective remedial action where misconduct is found; and afforded a timely closure, and not result in any retaliation against the complainant or any participant in the investigation.

If you believe you have been the victim of discrimination, harassment, or retaliation at Hack Reactor, or if you are aware of such unlawful or prohibited conduct of others, you should provide a written complaint to the licensed school Director as soon as possible. Your written complaint should be as detailed as possible, including the names of individuals involved, the names of any witnesses, direct quotations when language is relevant, and any documentary evidence (notes, pictures, cartoons, et cetera).

You may also provide a written complaint in a sealed envelope to the licensed school Director and upon request an independent investigation can be conducted by a neutral third party (ie arbitrator, retired judge, or equivalent).

Unlawful Retaliation

Hack Reactor encourages all students to immediately report, in writing, any incidents of discrimination, harassment, or any other type of unlawful conduct in the school to a licensed school Director so that complaints can be quickly and fairly resolved. Hack Reactor will not retaliate against any student for making or filing a complaint, or for offering evidence, statements, or testimony in support of any complaint. In addition, Hack Reactor will not knowingly tolerate or permit retaliation by management, employees, or other students.

All incidents of prohibited discrimination, harassment, or retaliation that are reported will be investigated. Hack Reactor will immediately undertake or direct an effective, thorough, and objective investigation of the allegations. The investigation will be completed and a determination regarding the reported prohibited conduct will be made and communicated to the student who complained and to the accused harasser(s).

If Hack Reactor determines that prohibited conduct has occurred, Hack Reactor will take effective commensurate remedial action to address the circumstances. Appropriate and reasonable action will also be taken to deter any future prohibited conduct. If a complaint of prohibited conduct is substantiated, appropriate action will be taken. The student who complained will be advised whether Hack Reactor has substantiated the complaint and taken remedial measures. The student who complained will not, however, be advised of the nature of any remedial measures taken.

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Texas Program Details

Onsite Full-Stack Web-Development Immersive Program

Prior to attending the onsite program, students must demonstrate their understanding of JavaScript fundamentals by completing approximately 100 hours of self-guided Pre-Course work at their own pace. ("Pre-Course") This ensures that students can hit the ground running at the start of the onsite program. During the first half of the onsite immersive, students work through an large amount of new material, at a extraordinary pace. In the second half of the course, students deploy their newly acquired skills to build projects, while learning new technologies. By the time they graduate, students become autonomous engineers, capable of tackling unique problems, and building complex applications. We have developed the immersive program to help support students in achieving this end goal.

The onsite immersive is built around learning advanced programming concepts and becoming familiar with industry-standard applications and tools. (Git, Backbone, Rails, Unix, and TDD testing frameworks.) The program provides a strong professional-support network starting at the application process extending through the student's job-search. This support lead to students garnering higher salaries, better benefits, and greater career satisfaction. We judge student outcomes by performance on technical interviews for relevant professional roles and job search success rate within six months of completing the program.

Total Lecture: 52 hours, Total Lab: 524 hours

Total Contact Hours: 576 hours in-person

Length of Course: 12 weeks of full-time in-person instruction plus 1 "solo week" when students get to work on thesis and personal projects. Including the admissions requirements, the total time required is 18 weeks.

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Course Subjects

Orientation and Pre-Course Review (HTML, CSS, JavaScript and Git)
On-Campus (11 hrs lab, 6 hrs lecture)

Teachers will review, assess and expand upon the information students learned during Pre-Course prior to starting the program. Students will dive deep into CSS positioning, selectors, pseudo-selectors, transitions, and transformations, while building the structure of their main portfolio page using advanced HTML5 elements. Students will then learn to use the ZURB Foundation framework or similar to create a responsive mobile-first designed webpage.

Data Structures and Modeling
On-Campus (23 hrs lab, 9 hrs lecture)

Students will have in introduction to JavaScript prior to coming on-campus. They will learn functions, for loops, while loops, control flow in JS, data structures using arrays and objects, and go deeper into objects. Projects that will be built include a rock-paper-scissors application, a search text for a name field, a contact list, an address book, and finally a cash-register application.

Data Structures will teach students how to implement common data structures such as arrays, hashes and trees. They will be able to create these structures and analyze the pros and cons of each by using the Big O notation. The particular methods they will optimize for including adding data, removing data, searching for data and sorting the data. This will give them the ability to pick optimal data structures for problem solving.

Inheritance Patterns, Algorithms, and Browser Animation and D3
On-Campus (45 hrs lab, 6 hrs lecture)

Students will learn to manipulate data in order to solve structured problems. These problems will include array traversal, tree traversal, binary search with arrays, recursion, sorting, amongst multiple others. They will gain the ability to solve larger complex problems similar to what is demanded in the industry.

Frameworks and the MVC Pattern
On-Campus (45 hrs lab, 6 hrs lecture)

Students learn to differentiate the different types of software frameworks from Object-oriented, AJAX, Content Management, Multimedia, etc. Students will learn the fundamentals of each framework and apply it to the development of their final projects.

Students learn how to manipulate HTML and master jQuery syntax. They learn the Document Object Model and how to work through it to select particular elements. Students will change targets and select which elements to change or animate in the DOM.

Students will take a much deeper dive into JavaScript to learn logging to the console, and all of the syntax associated with JS. Beginning with string interpolation, prompts, conditionals operators, NaN, infinity, scripting, loops, displays and prompts, the course will cover in-depth all the fundamental JS required to build client-side interactions to rails applications. The required project will be to build a quizzing application using only JavaScript in the browser. The JS learned during this subject will prepare students or jQuery, and other JS frameworks if they choose, such as AngularJS, Node.JS, Backbone.JS, React, etc.

Students take a deep dive into jQuery by reading the jQuery documentation and learning which selectors to use to achieve particular animations or store particular data from the DOM. A more advanced look into jQuery will occur with learning Event Handlers to start and stop animations or make DOM elements disappear/appear based on particular Events that occur. The final project for jQuery will be to build the “jQuery Café”, where AJAX will be used to take orders at a coffee shop for tea and coffee.

Server Side Technologies/Node and Databases
On-Campus (45 hrs lab, 5 hrs lecture)

Students learn the challenges that stem from the rupture between client and server components. Client-side components usually consist of HTML, CSS, JavaScript, Ajax, JS libraries, images, and any other files that are to be downloaded to the browser. On the server, student will learn the need of a listener to process requests, fetch resources or information, and manipulate them so that they can be sent back to the client. This is

usually accomplished using XML, JSON, or HTML-Formatted text, which is sent across the wire using Ajax.

Advanced Web Development: JavaScript, Angular, API frameworks, CSS frameworks, JS frameworks, Deployment and Authentication
On-Campus (45 hrs lab, 5 hrs lecture)

Advanced Web Development will teach students the advanced skills they will need to make them extremely marketable in the industry. Students will learn through a series of projects that take them through creating API integrations as well as using AJAX, Foundation as a CSS framework, and including but not limited to React, Backbone, Angular, Meteor, jQuery, and/or Ember.JS.

MVP, Greenfield, and Legacy Projects
On-Campus (86 hrs lab, 4 hrs lecture)

Students will be put through mock scenarios modeled after the real working environment of an engineer. They will be asked to build projects that require the knowledge they have gained thus far and apply them to different problems that frequently occur in the workplace.

Thesis Project
On-Campus (182 hrs lab, 7 hrs lecture)

A final project including all that is learned in the course will be the capstone requirement from students and will contribute to their portfolio once the hiring process begins.

Software Engineering Best Practices and Career Services Preparation
On-Campus (42 hrs lab, 4 hrs lecture)

Students will be given advice on interviewing with companies. The material includes both soft skills and technical skills. For soft skills this course will teach how to talk to potential employers and recruiters, how to write a proper resume and how to tackle behavioral interviews. For the technical portion, students will learn how to whiteboard code and display their technical expertise while solving algorithmic problem.

Faculty

- **Linden Kueck** - Linden is a Campus Lead / Director. Linden has spent many years teaching literature, writing, and theater at all levels--elementary to college--and working as an advisor to coach and guide students through their education. She graduated with a degree in English UTeach from UT Austin, and an MLitt and MFA in Shakespeare and Performance from Mary Baldwin University.
- **Crew Spence** - Crew is the Head of Student Outcomes. He is an experienced performance strategist and personal coach who has helped over 1,000 change careers and achieve their life goals over the last several years. Crew brings experience in sales, coaching, training, and journalism to his role helping students transition to engineering careers and maintaining student outcomes records. He holds a degree from University of North Georgia.
- **Brian Atwood** - Brian is an instructor and teaches the technical material in the course. He is a graduate from the MakerSquare software engineering immersive in Austin, TX (now Hack Reactor Austin). He discovered his passion for teaching Javascript while he was a fellow. He holds a BS in Evolutionary Anthropology from the University of Michigan - Ann Arbor.
- **Rose Desauguste** - Rose is a career coach. She helps students achieve their career goals and gives lectures on preparing for the job search, interviewing practices, and resume formats. She was previously a researcher and college admissions consultant. Rose has degrees in Psychology and Biology from Florida State University. She received her MS in Biomedical Sciences from Rutgers University.
- **Caleb Anderson -** Caleb is the Austin campus' Technical Mentor. He helps to ensure students can succeed in all aspects of the program. Caleb has completed the Hack Reactor program himself (formally Makersquare) so he understand what it takes to become a software engineer.

Facilities and Equipment

Hack Reactor Austin facilities are on one floor. Students and staff have access to six conference rooms for group projects, 1:1 meetings, and phone calls. The floor is also equipped with a kitchen, restrooms, separate storage areas for staff and students belongings, and a lounge area. Staff are provided with their own desks in a section away from students to provide privacy. Student seating and lecture areas are split between juniors (those who just started the program) and seniors (those who are already done with half the program). Students are provided access to pairing stations (single computer connected to two monitors, two keyboards and mice) for effective co-work and

co-learning experiences. Students are required to provide their own personal computer and use internal software (Learn2) to guide their learning.

Equipment at the Austin campus includes: Desks, chairs, Mac minis computers, projectors, projector screens, video camera, monitors, audio system, mice, keyboards, whiteboards, DVI to HDMI adapters, miscellaneous cables, WiFi internet, and other furniture.

Program Specific Instructional Equipment

Equipment	Number and Description	Age	Student:Equipment Ratio
MacBook Mini	16 – 4GB RAM, 2.5 GHz, 500GB HD	New	2:1
MacBook Air	8 – 4GB RAM, 128 GB HD, 13’ Display	2 mo.	28:4
Monitor	26 – Asus HD Monitors	New	2:1 for students and 3 extra for management
Monitor Stands	16 – Ergatron monitor mount	New	2:1
Projector	2 - Epson Short Throw	New	28:2
Printer	Canon multifunction laser printer	New	28:1
Network equipment	4 - Wireless routers	New	28:4
Keyboard	16 – Logitech Bluetooth Keyboards	New	2:1
Mice	16 – Logitech Bluetooth Mice	New	2:1

Withdrawing and Cancelling

We want you to thrive but life events can get in the way. Email Admissions when something gets in the way of your progress and we'll try to find a fix. If we can't make this work, cancel (and ask for a full refund) or withdraw (and receive a partial refund).

- To cancel: A full refund will be made to any student who cancels the enrollment contract within 72 hours (until midnight of the third day excluding Saturdays, Sundays and legal holidays) after the enrollment contract is signed. A full refund will also be made to any student who cancels enrollment within the student's first three scheduled class days, except that the school may retain not more than $100 in any administrative fees charged, as well as items of extra expense that are necessary for the portion of the program attended and stated separately on the enrollment agreement. Email atx.admissions@hackreactor.com.
- To withdraw: We ask that you withdraw in writing, too. Email us at atx.communication@hackreactor.com.

Refund Policy

1. Refund computations will be based on scheduled course time of class attendance through the last date of attendance. Leaves of absence, suspensions and school holidays will not be counted as part of the scheduled class attendance.
2. The effective date of termination for refund purposes will be the earliest of the following:
    a. The last day of attendance, if the student is terminated by the school;
    b. The date of receipt of written notice from the student; or
    c. Ten school days following the last date of attendance.
3. If tuition and fees are collected in advance of entrance, and if after expiration of the 7 day cancellation privilege the student does not enter school, not more than $100 in any administrative fees charged shall be retained by the school for the entire residence program or synchronous distance education course.
4. If a student enters a residence or synchronous distance education program and was or is otherwise terminated after the cancellation period, the school or college may retain not more than $100 in any administrative fees charged for the entire program. The minimum refund of the remaining tuition and fees will be the pro rata portion of tuition, fees, and other charges that the number of hours remaining in the portion of the course or program for which the student has been charged after the effective date of termination bears to the total number of hours in the portion of the course or program for which the student has been charged, except

that a student may not collect a refund if the student has completed 75 percent or more of the total number of hours in the portion of the program for which the student has been charged on the effective date of termination.

5. Refunds for items of extra expense to the student, such as books, tools, or other supplies are to be handled separately from refund of tuition and other academic fees. The student will not be required to purchase instructional supplies, books and tools until such time as these materials are required.

Once these materials are purchased, no refund will be made. For full refunds, the school can withhold costs for these types of items from the refund as long as they were necessary for the portion of the program attended and separately stated in the enrollment agreement. Any such items not required for the portion of the program attended must be included in the refund.

1. A student who withdraws for a reason unrelated to the student's academic status after the 75 percent completion mark shall be permitted to complete the course or program with a different cohort during the 12-month period following the date the student withdrew without payment of additional tuition for that portion of the course or program.
2. A full refund of all tuition and fees is due and refundable in each of the following cases:
    a. An enrollee is not accepted by the school;
    b. If the course of instruction is discontinued by the school and this prevents the student from completing the course; or
    c. If the student's enrollment was procured as a result of any misrepresentation in advertising, promotional materials of the school, or representations by the owner or representatives of the school.

A full or partial refund may also be due in other circumstances of program deficiencies or violations of requirements for career schools and colleges.

Refund Policy for Students Called to Active Military Service

1. A student of the school or college who withdraws from the school or college as a result of the student being called to active duty in a military service of the United States or the Texas National Guard may elect one of the following options for each program in which the student is enrolled:

a. If tuition and fees are collected in advance of the withdrawal, a pro rata refund of any tuition, fees, or other charges paid by the student for the program and a cancellation of any unpaid tuition, fees, or other charges owed by the student for the portion of the program the student does not complete following withdrawal;
b. A grade of incomplete with the designation "withdrawn-military" for the courses in the program, other than courses for which the student has previously received a grade on the student's transcript, and the right to re-enroll in the program, or a substantially equivalent program if that program is no longer available, not later than the first anniversary of the date the student is discharged from active military duty without payment of additional tuition, fees, or other charges for the program other than any previously unpaid balance of the original tuition, fees, and charges for books for the program; or
c. The assignment of an appropriate final grade or credit for the courses in the program, but only if the instructor or instructors of the program determine that the student has:
    i. Satisfactorily completed at least 90 percent of the required coursework for the program; and
    ii. Demonstrated sufficient mastery of the program material to receive credit for completing the program.

2. The payment of refunds will be totally completed such that the refund instrument has been negotiated or credited into the proper account(s), within 60 days after the effective date of termination.

Cohort Start Dates

This course catalog covers cohorts from January 2018 through March 2019.

Cohort Start Date	**Cohort End Date**
Jan 15, 2018	April 13, 2018
March 5, 2018	June 1, 2018
April 23, 2018	July 20, 2018
June 11, 2018	September 7, 2018
July 30, 2018	October 26, 2018
September 17, 2018	December 14, 2018
October 29, 2018	February 1, 2019
December 17, 2018	March 22, 2019

Hours

Students will attend class Monday – Friday from 9am to 8pm and Saturday from 9am to 5:30pm for 12 weeks. The 12 weeks are split by one week without instruction, called "solo week", so students can work on personal projects, review lessons, or outline thesis projects with the assistance of mentors before entering the second half of the program. Students take a 1-hour study hall/lunch break from 12:30pm to 1:30pm daily and a dinner break from 5:30pm to 6:30pm, and may take breaks as they wish throughout the day or continue working. Every other day, students are given an extended lunch break. During this time they are encouraged to exercise and overall, regain a healthy work/life balance.

Holidays

New Year's Day - January 1st
Memorial Day – Last Monday in May
Independence Day - July 4th
Labor Day – First Monday in September
Thanksgiving Day - Fourth Thursday in November
Friday After Thanksgiving – Fourth Friday in November
Saturday After Thanksgiving – Fourth Saturday in November
Christmas Eve – December 24th
Christmas Day - December 25th

Tuition and Schedule of Charges

Total tuition for Hack Reactor programs is $17,980. In order to enroll in any Hack Reactor Program an accepted Student must pay an upfront deposit of $2000, which includes an Registration fee of $100. Payment is due at the time of signing the Student Enrollment Agreement. The balance of Tuition ($15,980) is due by close of business on the cohort start date, which is the first day of classes.

Financial Aid

Hack Reactor is not an accredited university, and therefore does not participate in federal or state financial aid programs. Students have used private loans in the past and will need to adhere to terms provided by the lender. If the student obtains a loan to pay for this educational program, the student will have to repay the full amount of the loan plus interest, less the amount of any refund.

Regulatory Disclosures

Hack Reactor Austin is a private institution and this school has a Certificate of Approval from the Texas Workforce Commission (TWC). The TWC-assigned school number is S4481. The school's programs are approved by TWC.

Unresolved complaints may be directed to the Texas Workforce Commission, Career Schools and Colleges located at 101 E. 15th Street, Austin, Texas, 78778-0001. Further information can be found here: http://csc.twc.state.tx.us/

Hack Reactor does not have a pending petition in bankruptcy, is not in operation as a debtor in possession, has not filed a petition within the preceding five years, and has not had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code (11 U.S.C. Sec. 1101 et seq.)

Incompletes, Withdrawals, Repeat Subjects, and Remedial Work

Under Texas Education Code, Section 132.061(f) a student who is obligated for the full tuition may request a grade of "incomplete" if the student withdraws for an appropriate reason unrelated to the student's academic status. The policy must allow a student receiving a grade of incomplete to re enroll in the program during the 12-month period following the date the student withdraws and complete those incomplete subjects without payment of additional tuition.

Credits

For the avoidance of doubt, please note that you will not earn credits towards any degree or diploma through your attendance at any educational program offered by Hack Reactor. Hack Reactor is not aware of any institutions that accept any work product or letter of completion from Hack Reactor as credit towards any educational program.You may receive transcripts upon request. These transcripts will confirm your cohort number, start date, current status, and date of completion if applicable.

The information in this catalog is true and correct to the best of my knowledge.

Linden Kueck, Campus Lead / Director, Hack Reactor Austin