

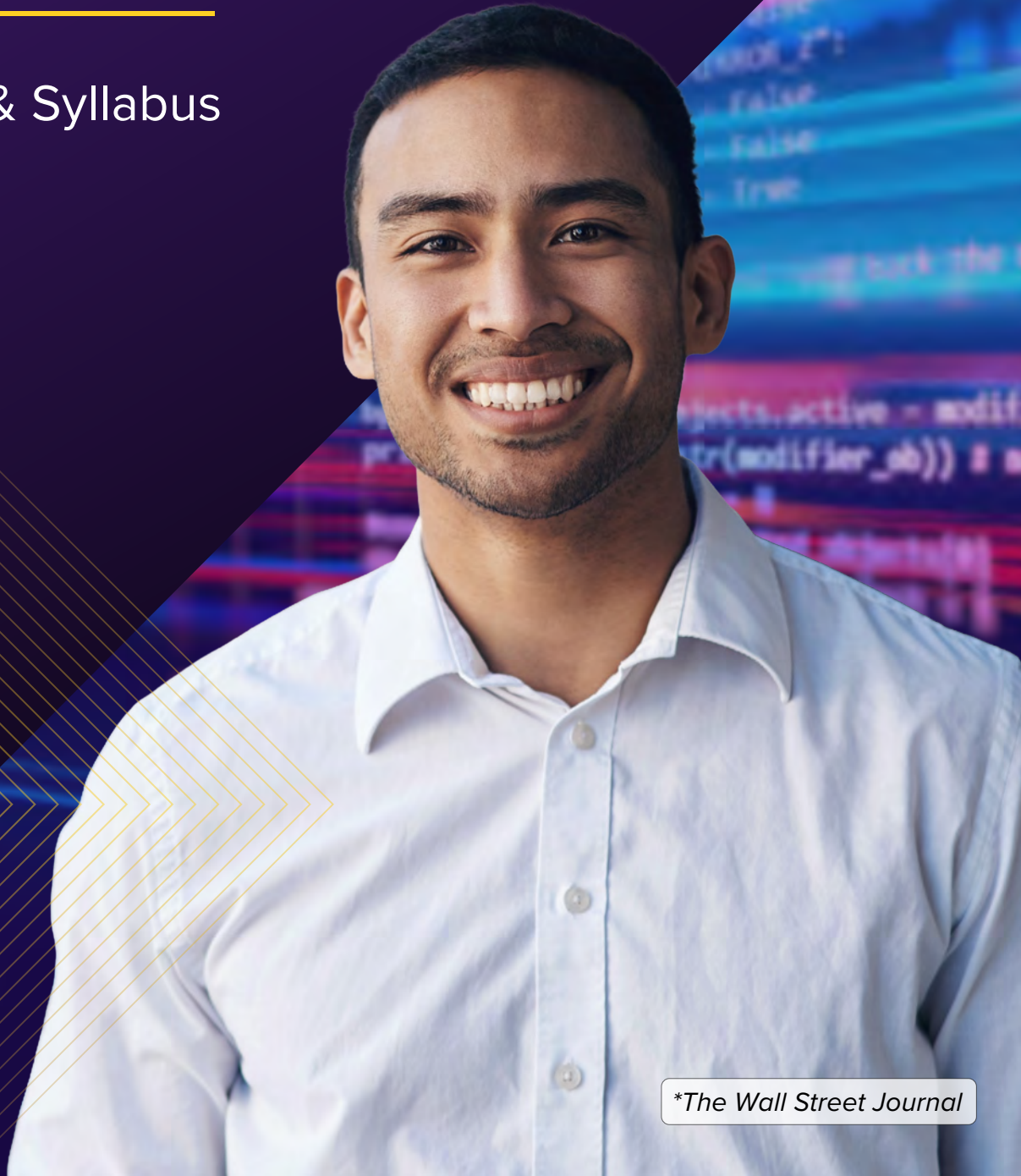
LSU Online

In Collaboration With
Fullstack
Academy

#1 University in Louisiana*

Coding Bootcamp

Overview & Syllabus



*The Wall Street Journal

TABLE OF CONTENTS

About the Coding Bootcamp	03

Key Features	04

Louisiana State University Online and Fullstack Academy Partnership	05

Software Engineering Industry Trends	07

Coding Job Roles & Salaries	08

Fullstack Academy Graduates' Achievements	09

Career Success Services	11

Student Testimonials	12

Certificate of Completion	13

Curriculum Unit Overview	14

Sample Projects	16

Eligibility Criteria	18

Application Process	18

Curriculum	19

About the Coding Bootcamp

As digital transformation accelerates globally, **demand for tech talent with coding skills is soaring**. The **U.S. Bureau of Labor Statistics** states that the **projected percent change in employment for software developers is 15% through 2034**, adding over **129,200 new jobs, which is 5 times the projected growth of all occupations**. AI tools are reshaping software development, too; **Gartner forecasts that by 2027, 80% of software engineers will regularly use AI assistants**, revolutionizing coding productivity.

The **Louisiana State University Online Coding Bootcamp**, in collaboration with Fullstack Academy, is designed to meet this rising demand. Through 100% live online classes, hands-on projects, integrated labs, and rigorous assessments, you will acquire in-depth skills in **front-end and back-end development, GenAI-enhanced coding, data structures and algorithms, and databases and version control systems**. You'll also be building a portfolio of industry-relevant projects that demonstrate your job readiness.

Upon successful completion, you will earn a **certificate of completion from Louisiana State University Online** and Fullstack Academy, validating your capability to craft modern software solutions.

To help you translate skills into career success, the program includes **personalized 1:1 career coaching during the bootcamp and for up to a year following graduation**. From resume and LinkedIn profile optimization, mock interviews, and access to curated job boards, you'll have the resources needed to stand out in the job market and launch a successful career in full-stack development and coding.

Key Features



Go from **coding beginner to job-ready in just 13-22 weeks** with no prior tech experience required.



Discover the cutting-edge applications of **generative AI in coding**.



Leverage our **comprehensive career coaching services** to build or optimize the ideal coding career for you, and enhance your visibility with top hiring companies.



Join a network of success—**over 1,500 companies across the U.S. have hired graduates** from Fullstack Academy Tech Bootcamps.



Study with Fullstack Academy, a trusted trailblazer in tech education with **600+ cohorts delivered**, plus gain access to a vast network of **13,000+ alumni** who can help open doors to new career opportunities.



Pursue a high-quality bootcamp program **rated 4.8 stars out of 5** by students and alumni (Course Report).



Earn a **certificate of completion** jointly issued by **Louisiana State University Online** and Fullstack Academy, validating your industry-ready skills.



Learn through **100% online classes** taught live by industry-experienced professionals.



Gain hands-on experience with top **generative AI** web development tools like **ChatGPT and GitHub Copilot**.



Practice front-end, back-end, and full-stack development using industry-leading tools and technologies like **HTML, CSS, JavaScript, React, Node.js, PostgreSQL, Express, APIs, Git, and more**.



Develop a portfolio of projects that showcase your ability to **build responsive websites, applications, and interactive user experiences**.

Louisiana State University Online and Fullstack Academy Partnership

#1 University in Louisiana*

Louisiana State University Online (LSU Online)—consistently ranked among Kiplinger’s Top 100 Public Colleges—is one of the highest-rated public universities in Louisiana. It has proven to be a place where students can get an exceptional education with a great return on investment. LSU graduates earn \$20,000 more annually than the national average.

LSU Online has chosen Fullstack Academy to power its Coding Bootcamp. Fullstack Academy is one of the longest-running and most reputable tech bootcamps in the nation. Its graduates are equipped to succeed in the professional world through a foundational, active-learning teaching method, which prepares students to thrive in their first job and every job after. Bootcamp graduates also gain the assistance of the Fullstack Academy career services team and leave as members of the LSU Online and Fullstack Academy communities—with a supportive alumni network of over 13,000 graduates that can help open doors to future career opportunities.

**The Wall Street Journal*

The Fullstack Academy **Difference**

Founded in 2012, Fullstack Academy is a pioneering and top-rated bootcamp provider that has helped over 13,000 graduates through 600+ cohorts to launch or accelerate their careers in tech.

Fullstack **Inclusion**

Fullstack can help make your career goals possible, no matter your background. We're committed to providing a welcoming, diverse, and flexible learning environment.

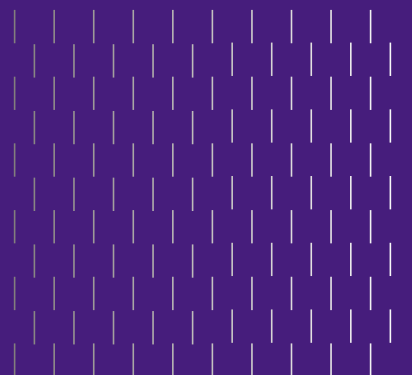


Fullstack **Experience**

Fullstack's rigorous curriculum focuses on the skills top-tier tech employers are seeking. Guided by passionate instructors and a caring career success team to assist with everything from interview prep to salary negotiations, you'll gain the confidence you need to build a fulfilling career.

Fullstack **Outcomes**

We're obsessed with helping our students succeed, and it shows: 1,500+ companies across the U.S. have hired our graduates — including notable companies like Google, Amazon, LinkedIn, Bloomberg, Facebook, Capital One, and many more.



Software Engineering Industry Trends

The 2025 Future of Jobs Report ([World Economic Forum](#)) emphasizes rapid growth in coding and programming roles as AI reshapes industries. According to the report, 86% of employers expect AI—along with increased hiring of software and application developers and those with genAI programming skills—to transform their business by 2030. Programming remains a vital differentiator, with 63% of employers citing tech skill gaps. Some key statistics highlighting the demand for tech expertise in today’s workforce are:

\$133,080

The average salary for a software engineer in the U.S. ([Bureau of Labor Statistics](#))

#4

Software development roles are projected to be the 4th fastest-growing jobs globally over the next decade ([World Economic Forum](#))

92%

The percentage of U.S. developers who use AI tools in their day-to-day work ([Yahoo News](#))

15%

The rate of growth of open software engineering roles over the next decade ([Bureau of Labor Statistics](#))

80%

The estimated percentage of current developers who will need to upskill in AI and machine learning by 2027 to remain competitive in the evolving tech landscape ([Gartner](#))

7.1 Million

The number of U.S. tech jobs projected by 2034 ([Deloitte](#))

Given this momentum, now is the ideal time to upskill in full-stack development and software engineering to stay relevant, unlock high-growth career opportunities, and remain competitive in an AI-accelerated future.

Coding Job Roles & Salaries

Explore coding job titles and their potential annual average salaries, according to data from Indeed and Glassdoor.

Job Title	Average Salary	Salary Range
Quality Assurance Analyst	\$67,470	\$43,000 - \$93,000
Front-End Developer	\$87,315	\$54,000 - \$134,000
Full-Stack Developer	\$90,080	\$60,000 - \$133,000
Back-End Developer	\$100,921	\$62,000 - \$149,000
Software Engineer	\$110,000	\$69,000 - \$136,000



Fullstack Academy Graduates' Achievements

Top-Reported Salary: **\$350,000**

This is the maximum salary among graduates who have disclosed their post-bootcamp salaries.

Average Salary: **\$76,038**

This represents the average salary of Fullstack Academy graduates who provided post-bootcamp salaries. However, the salary increases up to \$350,000 for some graduates, depending on various factors such as skills, experience, location, and employer.

Alumni Network: **13,000+** graduates

Join over 13,000 students who have benefited from Fullstack Academy's industry-relevant curriculum and career preparation for in-demand tech roles.

Graduation Rate: **89%**

This statistic is the percentage of students who have graduated from bootcamp or are close to graduation.



Prominent Companies That Have Hired Fullstack Academy Graduates

facebook

Google

Spotify

Bloomberg

Capital One

accenture



CIS Center for Internet Security

pepsi

Booz Allen

amazon



verizon

cvent

J.P.Morgan

InsightGlobal

citi

Expedia

TOYOTA

TEKsystems
Own change



WGU
WESTERN GOVERNORS UNIVERSITY

RioTinto

gm FINANCIAL



IXL
LEARNING

T Mobile

CLOUDFIT
SOFTWARE

CENTENE
Corporation

BlackRock

DATADOG

Etsy

wayfair

simon

andium

...and many more

Career Success Services

During bootcamp and for a full year after graduation, you can access the Fullstack Academy Career Success Program to help achieve your desired career outcomes.

1,500+ companies across the U.S. have hired Fullstack Academy graduates—everywhere from large tech firms to mid-size companies and innovative start-ups. You'll also join our expansive network of alums—building lasting connections to support you throughout your career.

Our career success support includes:

- ◆ **Access to a Curated Career Success Platform:** Integrated services to build a professional profile, optimize your resume & LinkedIn profile, explore a curated job board, attend events, and connect with coaches
- ◆ **Career Practicum Lessons:** Step-by-step career curriculum lessons and tools
- ◆ **Workshops & Webinars:** Live and on-demand interactive sessions with Career Coaches on job search, networking, interviewing, and more
- ◆ **1:1 Career Coaching:** Personalized sessions during the program and up to 12 months after your graduation for guidance on resumes, networking, interviews, and salary negotiation
- ◆ **Alumni & Industry Events:** Panels, guest experts, and networking opportunities to expand professional connections
- ◆ **Ongoing Support:** Resources, tools, and expert advice to support career readiness and job search

Student Testimonials



"After months of perseverance, I finally secured a full-time job. Along the way, I embraced freelance opportunities to enhance my experience, which proved invaluable in keeping me on course."

Alfredo Ferreira [in](#)

Mobile Engineer I,
Northwestern Mutual



"My career coach became my personal cheerleader. She was a huge part of my job search and success in landing my first position as a Software Engineer Intern."

Austin Cox [in](#)

Associate Software Engineer,
Wegmans Food Markets



"My bootcamp experience was both intense and rewarding."

Ariane Rubin [in](#)

Software Engineer, ENTITLED



"The bootcamp played a crucial role in helping me craft an impressive resume."

Anthony Ruiz [in](#)

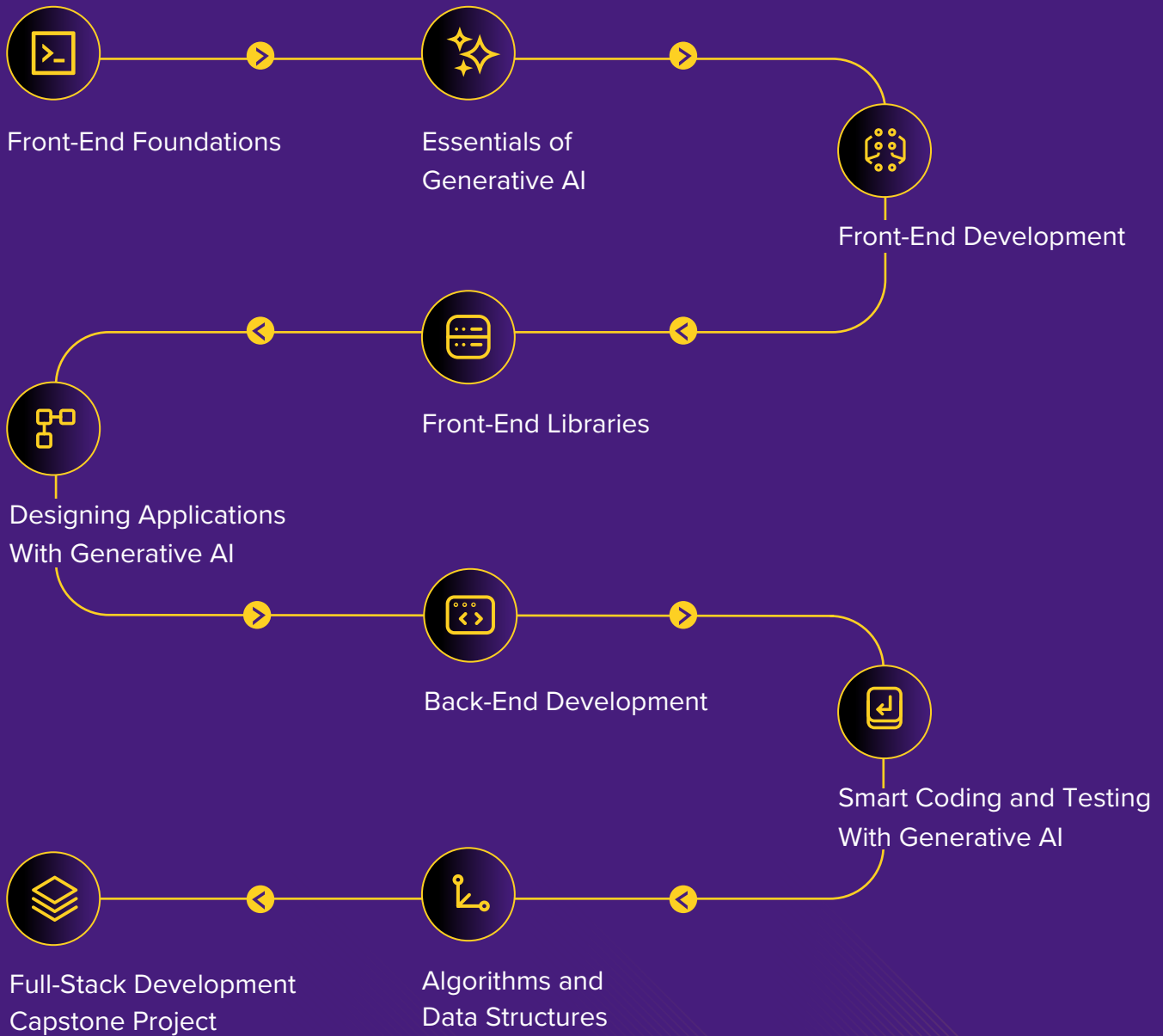
Software Engineer, Amazon

Certificate of Completion

Upon completing the Coding Bootcamp, you'll receive a **Certificate of Completion** jointly issued by LSU Online and Fullstack Academy. These credentials will validate your skills as an industry-ready web development professional.



Curriculum Unit Overview



Tools & Technologies Covered

HTML



CSS



JS



express



Command Line

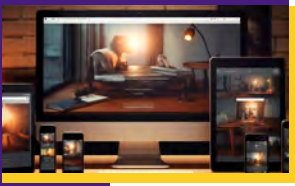


MOSTLY AI



...and many more

Sample Projects



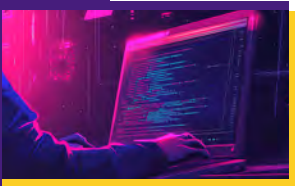
Personal Portfolio Website

Design and develop a multi-page website that highlights your skills, projects, and experience. Use HTML, CSS, and JavaScript to create a responsive and professional online portfolio.



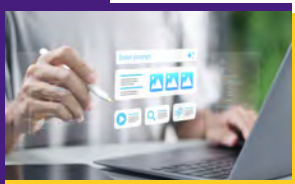
API-Driven Interactive Web Application

Build an interactive app that connects with REST APIs to display live data. Strengthen your JavaScript and asynchronous programming skills through real-world use cases.



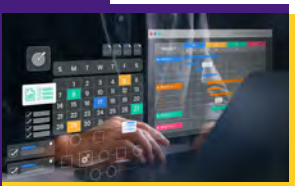
Full-Stack User Management System

Develop a full-stack application that allows users to create accounts and manage data securely. Implement authentication, authorization, and database integration for realistic functionality.



Business Landing Page Design Project

Create visually appealing landing pages for small businesses. Apply responsive design, branding, and accessibility principles for an engaging user experience.



Event Management Web Platform

Design a web platform that allows users to list events, manage guest RSVPs, and share updates. Incorporate CRUD operations and intuitive navigation to enhance usability.



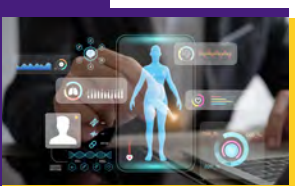
Streaming Content Explorer

Develop a platform for video streaming with dynamic content fetching. Learn how to structure and display data efficiently using API integration.



E-Commerce Plant Store Application

Build an e-commerce app where users can browse, add, and remove plants from their cart. Focus on user-friendly design, smooth transactions, and data persistence.



Fitness Tracker and Social Platform

Create a web app that allows users to register, share workouts, and track fitness progress. Integrate social features and personalized dashboards for engagement.



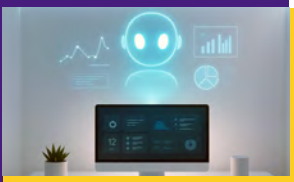
Employee Management Backend System

Design a backend solution to store and manage employee data. Implement CRUD operations, secure authentication, and organized data flow.



Music Playlist Management Application

Develop a digital platform in which users may search, add, and manage their music playlists. Practice building APIs and managing user interactions with databases.



AI-Powered Application Design Assistant

Use Generative AI tools like ChatGPT and Uizard to enhance app design and coding efficiency. Learn how AI can support UI/UX workflows and accelerate code generation.



Relational Database and API Integration Project

Design and query a relational database, then build APIs to serve and manage that data. Gain experience in connecting backend logic with front-end applications.



Generative AI for Software Development and Testing

Explore AI-assisted development using tools like GitHub Copilot and testRigor. Automate code generation, optimization, and testing to accelerate development speed.



Data Structures and Algorithms Mastery Project

Implement essential data structures and algorithms to solve real-world problems. Strengthen analytical thinking and prepare for technical interviews.

*The projects listed above are for illustrative purposes only and may be subject to change based on curriculum updates and industry relevance.

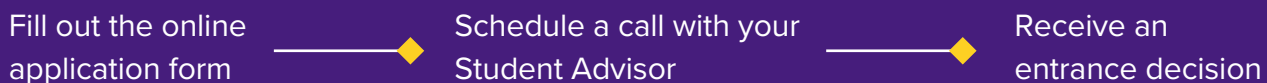
Eligibility Criteria

For admission into the LSU Online Coding Bootcamp, candidates must meet the following qualifications:

- ◆ Be at least 18 years old
- ◆ Have earned a high school diploma or GED equivalent

Application Process

The application process consists of three simple steps:



Talk to a Student Advisor

Our team of dedicated student advisors will guide you through your bootcamp journey. They are available to:

- ◆ Address your questions about the application process
- ◆ Discuss available payment options, discounts, and scholarships
- ◆ Provide insight into the curriculum, program outcomes, and more

Curriculum

Unit 1

Front-End Foundations

Get started with web development! This unit covers the foundational skills for building interactive and engaging websites. You'll set up your coding environment, learn the essentials of Git for version control, and learn the core front-end languages: HTML, CSS, and JavaScript. You'll also learn the principles of responsive web design.

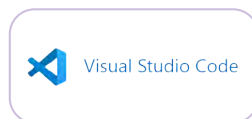
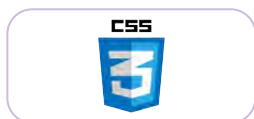
Key Learning Objectives

- ◆ Set up a development environment
- ◆ Use Git for version control
- ◆ Build web page structures with HTML
- ◆ Style web pages with CSS
- ◆ Implement basic interactivity with JavaScript
- ◆ Design responsive websites

Key Skills

- ◆ HTML Structure and Semantics
- ◆ CSS Styling
- ◆ JavaScript Fundamentals
- ◆ Git Version Control
- ◆ Responsive Design

Tools & Technologies



*Curriculum is subject to change.

Unit 2

Essentials of Generative AI

Explore the exciting world of generative AI and large language models (LLMs). This unit introduces you to the core concepts of AI-powered content creation, from understanding how prompts work to optimizing models.

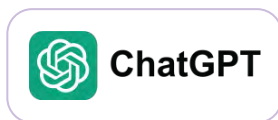
Key Learning Objectives

- ◆ Learn key concepts of generative AI and LLMs
- ◆ Develop prompt engineering skills
- ◆ Explore different GPTs

Key Skills

- ◆ Generative AI Foundations
- ◆ Prompt Engineering
- ◆ Fine-Tuning Prompts

Tools & Technologies



*Curriculum is subject to change.

Unit 3

Front-End Development

Build interactive and dynamic web applications using core JavaScript concepts. This unit covers essential concepts such as control flow, conditionals, functions, loops and arrays, events, promises, and test-driven development. You'll also learn to manipulate the Document Object Model (DOM).

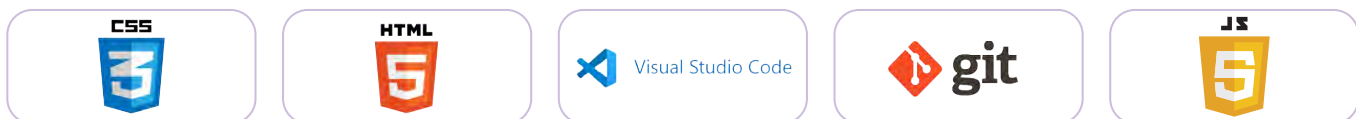
Key Learning Objectives

- ◆ Learn advanced JavaScript concepts
- ◆ Implement control flow and handle event
- ◆ Manipulate the DOM
- ◆ Implement test-driven development (TDD)

Key Skills

- ◆ DOM Manipulation
- ◆ JavaScript
- ◆ Programming
- ◆ TDD

Tools & Technologies



*Curriculum is subject to change.

Unit 4

Front-End Libraries

Learn to build complex and scalable user interfaces using React. This unit covers component-based architecture, state management, data fetching, and routing. You'll gain practical experience building interactive applications with React.

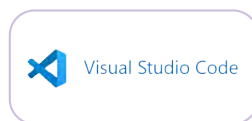
Key Learning Objectives

- ◆ Understand React components and JavaScript XML (JSX)
- ◆ Handle component state and props
- ◆ Fetch and display data using React hooks
- ◆ Implement routing
- ◆ Manage global state

Key Skills

- ◆ API Interaction in React
- ◆ React Router
- ◆ React Component Architecture
- ◆ State Management

Tools & Technologies



*Curriculum is subject to change.

Unit 5

Designing Applications With Generative AI

Discover how to use generative AI for application design. This unit covers how generative AI can improve UI/UX, accelerate architectural planning, and produce initial code drafts.

Key Learning Objectives

- ◆ Integrate generative AI into UI/UX design workflows
- ◆ Utilize generative AI to streamline architectural planning
- ◆ Experiment with generative AI code generation tools
- ◆ Optimize user flows using generative AI-driven insights

Key Skills

- ◆ Generative AI-Assisted UI/UX Design
- ◆ Generative AI-Powered Architectural Planning

Tools & Technologies



Figma



Framer



Microsoft Designer



Uizard

*Curriculum is subject to change.

Unit 6

Back-End Development

Get hands-on experience building robust and scalable server-side apps with Node.js, Express, and Structured Query Language (SQL). You'll learn how to create application programming interfaces (APIs), design databases, implement user authentication, and build secure server-side logic.

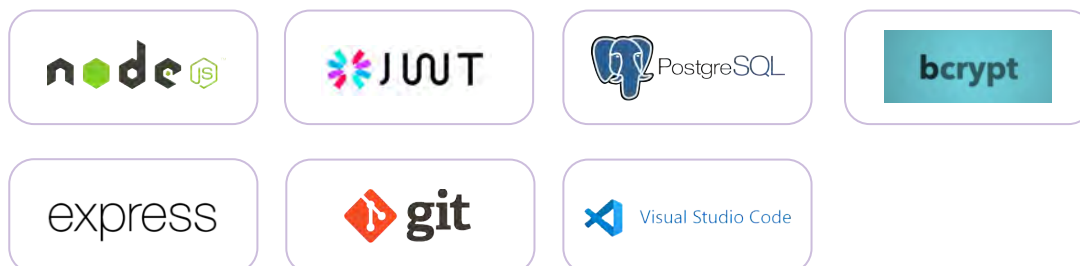
Key Learning Objectives

- ◆ Build REST APIs
- ◆ Design and build SQL databases
- ◆ Implement user authentication
- ◆ Learn server-side architecture

Key Skills

- ◆ API Design
- ◆ Node.js and Express.js Development
- ◆ SQL Database Management

Tools & Technologies



*Curriculum is subject to change.

Unit 7

Smart Coding and Testing With Generative AI

Discover how generative AI can revolutionize your coding and testing workflows. This unit explores AI-assisted code generation, migration, optimization, and testing.

Key Learning Objectives

- ◆ Use generative AI to generate code
- ◆ Leverage generative AI to optimize code
- ◆ Apply generative AI to migrate code
- ◆ Automate testing using generative AI

Key Skills

- ◆ Generative AI-Assisted Coding
- ◆ Code Migration With Generative AI
- ◆ Generative AI-Powered Testing

Tools & Technologies

MOSTLY AItestRigorGitHubChatGPT

*Curriculum is subject to change.

Unit 8

Algorithms and Data Structures

Master algorithms and data structures—the building blocks of efficient code. This unit covers algorithm analysis, data structures, and essential algorithms (searching, sorting, and recursion).

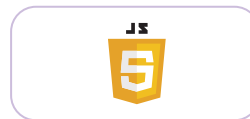
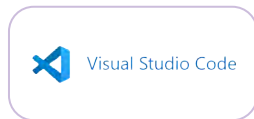
Key Learning Objectives

- ◆ Understand algorithm analysis
- ◆ Apply searching and sorting techniques
- ◆ Build data structures
- ◆ Explore graph algorithm concepts

Key Skills

- ◆ Algorithm Analysis
- ◆ Searching and Sorting Algorithms
- ◆ Data Structure Implementation
- ◆ Graph Algorithms

Tools & Technologies



*Curriculum is subject to change.

Unit 9

Full-Stack Development Capstone Project

Apply your full-stack skills to develop a real-world web application, gain practical experience, and build a portfolio-ready project that demonstrates your proficiency to employers.

Key Learning Objectives

- ◆ Implement full-stack development
- ◆ Work as a dev team

*Curriculum is subject to change.



LSU Online



APPLY NOW

bootcamp.online.lsu.edu/programs/coding

info.lsu@fullstackacademy.com