



Software Engineering Bootcamp

In partnership with:



Introduction

Africa's top Tech Bootcamp - Moringa teams up with America's Top Tech Bootcamp - Flatiron School, to bring you a Software Engineering Course that puts you on the path to career freedom. Being a software engineer requires more than knowing how to code or build a web app, we teach you how to learn, think, and build, like software engineers.

Why Learn Software Engineering?

The Full-Stack Software Engineering Course covers both Back-End and Front-End programming technologies. At the end of the course, you will graduate as a Full Stack Web Developer with both technical and professional skills.

1 Practical Hands-on Learning

Get job-ready with practical, hands-on learning. You'll learn the in-demand market languages and skills, labs, and real-world portfolio development.

2 Technical Mentorship

Schedule check-ins with your instructor to work on technical concepts, plan out your pacing or check in about your program milestones.

3 Learn in Community

You have access to fellow students, alumni, and technical mentors to guide you through.

4 Career Coaching and Graduate Support

You will get career coaching and job-hunting support for up to 12 months post-graduation

Who is this course for?

If you want to build a career in software engineering, this course is for you!

- Anyone passionate about technology and problem-solving, eager to learn both front-end and back-end development.
- Anyone new to coding who wants to build a strong foundation in software development?
- Professionals looking to transition into tech and secure roles in software engineering.
- Those with some coding experience who want to enhance their skills and become full-stack developers.

What are the requirements to join?



Must have graduated from High School



Have basic computer knowledge



Proficiency in English both spoken and written.



Must have a computer or laptop with the following specs (core i5 - i7, 8GB RAM, 500GB memory).



Access to internet

Software Engineering Course Overview

Part-Time Online Classes

Duration - 35 weeks

Mode - 100% live & online classes

Mon - Fri from 6 pm - 9 pm

Tuition Fees - Ksh 200,000

Full-Time Online Classes

Duration - 27 weeks

Mode - 100% live & online classes

Mon - Fri from 8 am - 5 pm

Tuition Fees - Ksh 174,000

Hybrid Classes

Duration - 27 weeks

Mode - 2 days in-person and 3 days online classes at our campus from

Mon - Fri from 8 am - 5 pm

Tuition Fees - Ksh 200,000

Fee Payment Options Available



Course Outline

Module 1: Orientation & Career Incubator 1

- Onboarding and orientation
- System configurations and installations
- Career incubator - Build your professional brand with a standout resume, LinkedIn profile, and portfolio. Learn how to document your lab work effectively and present your skills with confidence to future employers. Resume + portfolio skeleton review

Module 2: Front End Development 1

• Software Engineering Fundamentals

Fundamentals of front-end web development with HTML, CSS, and JavaScript. You'll learn to create user interfaces, write clean code, and solve logic problems. Explore core programming concepts, data structures, and developer tools like GitHub.

• JavaScript Fundamentals

Master frontend development, offering a deep understanding of JavaScript, essential for web development. Learn modern JavaScript syntax, including asynchronous programming, and explore topics like data structures, functions, and testing.

• JavaScript Interactions

Create interactive web pages using HTML, CSS, and JavaScript. You'll master key concepts like asynchronous programming, DOM manipulation, and client-server communication, and develop the skills to build responsive user interfaces.

Health & Wellness Break

Module 3: Front-End Development 2

- React 1 - Learn React, a popular front-end library, and how to integrate it with JavaScript to develop key app components
- React 2 - Advance your React skills, focusing on integrating more complex components to build robust, interactive front-end applications.

Curriculum Outline

Health & Wellness Break

Module 4: Back-end development 1

- **Introduction to Python** - Learn fundamental programming concepts, including scripting, operators, loops, data structures, libraries, and functions.
- **Object Oriented programming with Python** - This course introduces essential Python programming concepts for backend development, focusing on object modeling and complex relationships like one-to-many and many-to-many, commonly used in databases

Career Incubator 2

Practice technical and behavioral questions to refine your portfolio

Module 5: Back-End Development 2

- **API Development with Python** - Learn to use a Python library/framework to build dynamic REST APIs, focusing on data exchange, validation, and client-server communication.
- **Relational Databases** - Learn SQL and Flask-SQLAlchemy to build robust APIs that interact with relational databases. Master data manipulation and complex model relationships.
- **Backend development with Python** - Build robust and secure web applications using Flask. Master client-server communication, JWT authentication, and backend development.

Module 6: Technical Assessment & Capstone

- **Mock interviews**
- **Technical Assessment**
- **Capstone** - You'll develop projects focused on solving business problems. You'll use your foundational skills to build a full-stack app with a React frontend, Flask backend, and a relational database.

What Our Graduates Say



It has been over three years since I first joined Mo-ringa School. Before Moringa School I was a computer science student but then I decided to join a coding boot camp to gain practical skills. Life for me has never been the same since then. I love coding and would definitely encourage more girls to join the program.

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Latasha Ndirangi,
Developer at Dotsavy

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