



SOMAKODI

BROCHURE

SOFTWARE ENGINEERING

Software powers the systems, applications, and digital platforms that run the modern world from mobile apps and online services to financial systems, enterprise software, and emerging AI-driven technologies as organizations continue to digitize operations and innovate through technology.

This program introduces learners to the core principles of computing and gradually progresses into advanced programming, system design, and professional engineering practices used across the industry. Designed to support complete beginners, the curriculum guides learners step by step toward becoming confident, job-ready software engineers through hands-on projects, real-world problem-solving, and exposure to industry-standard tools. Every module emphasizes practical application, collaboration, clean code practices, and the ability to think through engineering challenges like a professional.

By the end of the course, learners will have mastered essential programming languages, frameworks, and problem-solving techniques used in modern software development, including Python or JavaScript, databases, APIs, version control, and cloud deployment.

PREREQUISITES

This is a beginner-friendly program with no prerequisites, although many students have engaged in self-learning previously or have worked at tech startups or in tech-adjacent roles. Whether you're new to the field or you're looking to formalize your practice, our curriculum helps you become fluent in the languages, frameworks, and libraries that modern employers demand and put them to work.

Why learn Software Engineering

1. High Demand Career

The tech industry is growing rapidly, and software engineers are in high demand across all sectors, including finance, healthcare, education, entertainment, etc. This demand translates to excellent job security, competitive salaries, and global career opportunities.

3. Flexibility and Remote Work

Many software engineering roles offer the option to work remotely or freelance, giving you control over your schedule and location.

The skills are also globally applicable, allowing you to work for companies anywhere in the world.

5. Entrepreneurial Potential

With coding skills, you can launch your own apps or tech businesses with relatively low startup costs. Many successful tech startups started with just one or two software engineers.

2. Problem-Solving and Innovation

Software engineering teaches you how to think logically and solve complex problems.

You get the chance to build solutions that can improve lives and transform industries.

4. Versatile and Evolving Career Paths

You can specialize in areas like web development, mobile apps, data science, artificial intelligence, cybersecurity, and more. It also opens doors to roles in product management, entrepreneurship, and tech consulting.

6. Creativity and Real-World Impact

Learning coding combines problem-solving, designing, and innovation. You get to create, test, and iterate like building with digital LEGO. You will enjoy bringing great ideas to life.

Why Study at Somakodi School

Somakodi is one of the most successful tech boot camps in Kenya. Join us and get top-tier learning & student experience.



Professional and experienced team



Practical hands-on learning



Enhanced digital-first learning



Financial Aid Opportunities



Immersive Curriculum



Job placement support

Who is this course for?

A software engineering course is suitable for a wide range of people, not just those who already know how to code. It fits anyone who wants to build, design, or work with software systems.

- **Beginners with an interest in Tech.** You are curious about how websites, apps, and systems work, you don't need a strong math or coding background, just your interest and willingness to learn.
- **Career Switchers.** You have a background in finance, teaching, marketing, hospitality, etc., and are you looking to transition into tech for increased earnings, remote work opportunities, and more flexible careers
- **Individuals who are problem-solvers & critical thinkers** and enjoy solving puzzles, building things and logical thinking. If you enjoy structured problem-solving, software engineering will feel natural.
- **Professionals seeking high-demand, high-pay skills, stable employment, job security, International opportunities, freelancing, or remote work.** Tech talent is in demand globally.
- **Entrepreneurs, anyone planning to build or manage a tech startup.** Understanding how software works helps you lead teams, make better decisions, and avoid costly mistakes.

What are the requirements for learners?

- Have Basic computer skills
- Desire and curiosity to learn.
- Have a Desktop computer or Laptop with stable internet access.

Software Engineering Course Overview

• Class Timings	:	Flexible Schedule
• Program Fees	:	Kes. 75,000/=
• Course Model	:	Live classes and 100% Online
• Learning Duration	:	8 - Months
• Classes Schedule	:	Monday - Friday

Teaching Method (Somakodi Classroom)

- Daily hands-on code sessions with tutor
- Assignment/Practice tasks after each lesson
- Weekly quizzes & mini-projects
- Mentorship from tutors
- End of Unit Project presentations

Throughout this expert-designed program, you'll:

- Learn to write clean, efficient code, solve practical problems, and build confidence using essential development tools and techniques.
- Master front-end web development with HTML, CSS, JavaScript, and responsive design, enabling you to create modern and interactive user interfaces.
- Develop strong back-end skills, including server-side programming, API development, authentication, and understanding how application logic operates behind the scenes.
- Study database design and management, using SQL to create tables, write queries, and connect applications to real, secure data systems.
- Gain hands-on experience with Git and GitHub, learning to manage code versions, collaborate effectively, and work like a professional developer.
- Explore core software engineering principles such as the software development life cycle, Agile methodologies, documentation, and industry best practices.
- Learn how to deploy applications on modern hosting platforms while developing essential career skills—including problem-solving, teamwork, and interview readiness.

CURRICULUM OVERVIEW

Onboarding

- Course Overview
- System configurations and installations
- Digital learning orientation
- Introduction to FullStack Web Development

Web Design

- Get acquainted with common developer tools (Chrome Developer Tools, text editors, code linters)
- Learn to navigate a computer file structure and configure development environments.
- Leverage Git and GitHub to manage work.
- Start coding using HTML, CSS, and JavaScript.
- Learn troubleshooting and debugging techniques.

Front-End Development

- Dive into fundamental programming concepts (functions, control flow, variables, scope, etc.) using JavaScript.
- Get acquainted with front-end templating and Incorporate new patterns into front-end architecture, including custom behaviors, client-side models and data binding, form validation, state management, and AJAX (Asynchronous JavaScript and XML).
- Learn to integrate dynamic data into interactive websites using APIs
- Gain an introduction to project design, project planning, and project management techniques engineers use on the job, including wireframes and user stories
- Incorporate authentication capabilities into sites and applications (i.e., user logins, encrypted passwords, etc.).

Full-Stack Development

- Build a foundation in full-stack development by exploring back-end development basics with Python.
- Build web forms that collect user data for storage in a database.
- You will get comfortable with object-oriented programming and storing information in databases, and object relational mapping.
- Learn Flask, a Python web framework, create your own JSON API along with scalable front ends with React, creating slick, functional, and interactive applications.
- Gain an introduction to testing and test-driven development.

Soft Skills Training

- Soft skills essential for career advancement.
- This unit focuses on enhancing various aspects, including self-leadership, effective collaboration, impactful communication, entrepreneurial mindset, proficient project management, and career readiness.

DevOps Training

- Automates repetitive tasks to boost efficiency, reduce errors, and accelerate delivery.
- Utilises Continuous Integration and Continuous Deployment (CI/CD) pipelines to support frequent, safe, and consistent code releases.
- Includes comprehensive cloud training in AWS and Azure, teaching students how to deploy, manage, and scale applications on leading cloud platforms.



SOMAKODI SCHOOL ADMISSION

WHERE LEARNING COMES TO LIFE!

A hub of academic excellence, creativity, and personal growth! We invite prospective students and families to embark on an exciting educational journey with us.

Why Choose Somakodi School?

- Academic Excellence
- Inclusive Community
- Holistic Development
- State-of-the-Art Facilities

Join Somakodi School and let your educational journey begin

What are the benefits of online learning?

- Flexibility and Convenience
- Personalized Learning Experience
- Develop Self-Discipline and Tech Skills
- Cost-Effective