



CODELABS ACADEMY

TECHNOLOGY & PROFESSIONAL SKILLS TRAINING DIVISION

“Practical Skills. Real Projects. Career Ready.”

OFFICIAL COURSE OUTLINE

Certified Full Stack Software Developer

Build and ship real web applications, from the first line of code to a live server.

Rolling Intake ENROLLMENT	2 Months DURATION	Beginner to Practitioner LEVEL	Live Online Classes DELIVERY MODE
10 to 12 hrs / week ESTIMATED WEEKLY EFFORT	Codelabs Academy Certificate CREDENTIAL AWARDED	Software Development CATEGORY	Juba, South Sudan DELIVERED FROM

I. About This Programme

This programme is delivered by Codelabs Academy, the training division of Codelabs, a South Sudan based technology company. Classes are taught by Codelabs engineers and working technology professionals, live and online, so instruction stays grounded in how the work is actually carried out in practice rather than in theory alone.

II. Who This Programme Is For

Beginners with no prior coding experience through to self taught developers who want a structured, complete foundation across the full application stack.

Entry Requirements

- A laptop or computer with a stable internet connection
- Basic computer literacy, comfortable using a web browser, files and folders
- No prior coding experience required, this program starts from the fundamentals
- Commitment to attend live classes and complete project work

III. Programme Description

Most people learning to code pick up one part of the puzzle, a little HTML here, a programming language there, without ever connecting them into something that runs for real users. This programme is built around closing that gap.

Students follow the complete path an application takes: a frontend the user interacts with, a backend that handles logic and data, a database that stores it, and the deployment process that puts it online. This is the same path every

production software product follows.

IV. Learning Outcomes

Measurable Outcome	Demonstrated Via
Build responsive, accessible web interfaces using HTML, CSS and JavaScript.	Unit I Practicum
Develop interactive, component based frontend applications that consume external data.	Unit II Practicum
Design and implement a working backend API with a connected database.	Unit III Practicum
Deploy a complete application to a publicly accessible server.	Unit IV Capstone
Apply version control and collaborative development practice throughout a project.	Continuous Portfolio Review

V. Core Curriculum: Weekly Modules

UNIT I Frontend Foundations

Weeks 1 to 2

“How does a browser turn a plain text file into a page a user can see and use?”

Topics Covered

- Page structure and semantics with HTML
- Layout and responsive design with CSS
- JavaScript fundamentals and programme logic
- DOM manipulation and user events

Lab Practicum • Estimated 10 hrs

Build a responsive, multi page website from a design brief.

UNIT II Modern Frontend Development

Weeks 3 to 4

“How do production interfaces stay organised and responsive to real data?”

Topics Covered

- Component based user interface development
- Managing application state
- Consuming data from a public API
- Git and collaborative development workflows

Lab Practicum • Estimated 12 hrs

Build an interactive single page application connected to a public API.

UNIT III Backend & Data

Weeks 5 to 6

“What happens on the server between a request and the response a user sees?”

Topics Covered

- Server side logic and routing
- Building REST APIs
- Authentication and authorization
- Relational database design and queries

Lab Practicum · Estimated 14 hrs

Build a backend API with authentication and a connected database.

UNIT IV Integration, Deployment & Capstone

Weeks 7 to 8

“What does it take to move a finished application from a laptop to the public internet?”

Topics Covered

- Connecting frontend and backend end to end
- Testing and debugging an application
- Hosting and deployment
- Environment configuration and basic security

Lab Practicum · Estimated 16 hrs

Capstone: deploy a complete full stack application to a live server.

VI. Weekly Time Commitment

Activity	Hours per Week
Live Instructor Led Classes	4.0 hrs / wk
Practical Lab & Project Work	4.0 hrs / wk
Self Study & Practice	2.5 hrs / wk
Peer Review & Consultation	1.5 hrs / wk

VII. Programme Progression

Phase I: Foundations (Weeks 1 to 2)

Building core concepts and comfort with the tools used throughout the programme.

Phase II: Core Skills (Weeks 3 to 4)

Developing the primary practical skills the certificate is built around.

Phase III: Applied Practice (Weeks 5 to 6)

Applying those skills to realistic tasks that mirror real working conditions.

Phase IV: Capstone and Certification (Weeks 7 to 8)

Completing a final project and assessment that leads to certification.

VIII. Assessment & Certification Criteria

Assessment Component	Weight
Weekly Lab Practicums (Units I to IV)	40%
Mid Programme Practical Assessment	15%
Final Capstone Project	35%
Participation & Professionalism	10%

Certification Bands

Band	Overall Score
Distinction	90% and above
Merit	75% to 89%
Pass	60% to 74%
Incomplete	Below 60%

IX. Programme Policies**Attendance & Make Up**

Students are expected to attend all live sessions. Session recordings are made available afterward, and a student who misses a class may arrange a catch up session with their instructor before the next unit begins.

Original Work

All lab practicums and the capstone project must reflect the student's own understanding and effort. Students are encouraged to discuss approaches with peers, but submitted work must be completed individually unless a unit specifies group work.

Responsible Use of AI Tools

Students may use AI tools to support their learning, for example to research a concept or review their own work. Submitting AI generated work as a capstone project without a genuine understanding of how it functions does not meet the certification standard.

X. Tuition & Enrollment

\$300

TUITION

2 Months

PROGRAMME DURATION

What Is Included

- All live instructor led classes and lab practicums for the full programme
- Course materials and guided project briefs for every unit
- A Codelabs Academy certificate of completion upon meeting the Pass standard or above
- Admissions and scheduling support throughout the programme

To apply, visit codelabs.com.ss/academy/fullstack-developer or contact Codelabs Academy admissions directly. Enrollment is ongoing, with a new cohort beginning monthly.

Mading Robin

Academy Director, Codelabs Academy

Date: _____