

FULLSTACK SPECIALISATION · 6 MONTHS · ONLINE

Full Stack Development Programme

Become a complete product engineer. Master the modern web platform, JavaScript runtime systems, React with TypeScript, and backend production engineering — building with AI-assisted workflows from day one.

6 MONTHS

26-WEEK INTENSIVE

5 + 1

CORE MODULES +
CAPSTONE

10+

PORTFOLIO
PROJECTS

4

INDUSTRY MENTORS

ABOUT EMPOWERS ACADEMY

Built by Engineers. Designed for Outcomes.

Empowers Academy is a mentor-led online academy focused on one thing: turning motivated learners into industry-ready engineers. Our cohorts are intentionally small (~8–10 learners), our mentors are practising engineers who ship production systems every week, and our curriculum is rebuilt continuously around how modern teams actually work — with AI-assisted development at the core, not as an afterthought.

8–10

LEARNERS PER COHORT

4

DEDICATED MENTORS

180DAYS OF GUIDED
LEARNING**1:1**MENTORSHIP &
REVIEWS

WHY LEARNERS CHOOSE US

**Small, Mentor-Led Cohorts**

No lecture halls of 500. Every learner is known by name, reviewed personally and pushed individually.

**AI-Assisted From Day One**

Learn to build with Copilot, Cursor and Claude the way modern engineering teams do — faster, with judgement.

**Ship Real Products**

Every module ends with a deployed deliverable. You graduate with a live portfolio, not just certificates.

**Lifetime Community**

Alumni network, hiring-partner referrals, and continued mentor access even after you're placed.

PROGRAMME AT A GLANCE

From First Line of Code to Production Engineer

A hands-on, project-based journey through modern full-stack product engineering. Five core modules take you from AI-assisted development foundations through UI systems, JavaScript runtime internals and React + TypeScript architecture, into backend and production engineering — then a 1.5-month capstone where you ship a real product.

● 6 Months · 26 Weeks

● 15–18 hrs / week

● 100% Online & Flexible

● Live + Self-Paced

● AI-Assisted Workflows

● No Prior Coding Needed



Format

Live mentor-led sessions with recordings, structured self-paced labs, and weekly project checkpoints.



Who It's For

Students, graduates and career changers from any background. The programme starts from zero and moves fast.



How You'll Learn

Build-first pedagogy: every concept is introduced through a product problem, then reinforced in engineering labs.



Where It Leads

Full stack, frontend, backend and product engineering roles — with a deployed portfolio to prove it.

Programme promise: graduate with a GitHub portfolio of 10+ real projects, one live capstone product, and the engineering judgement to build with — and beyond — AI tools.

FULLSTACK SPECIALISATION

Five Core Modules + 1.5-Month Capstone

Each module builds directly on the last, ending with a shipped deliverable for your portfolio.

1	Foundations of AI-Assisted Full-Stack Development How the web works, dev environment & coding with AI	Weeks 1–3
2	Web Platform Foundations & UI Systems HTML, CSS, responsive design & component systems	Weeks 4–7
3	JavaScript Runtime Systems, Browser APIs & Product Engineering Labs Deep JavaScript, async patterns & hands-on labs	Weeks 8–11
4	React, TypeScript & Frontend Product Architecture Typed components, state & scalable frontend design	Weeks 12–16
5	Backend Product Systems, APIs & Production Engineering Node, databases, auth, testing & deployment	Weeks 17–20
6	Live Capstone Project A complete product — designed, built & shipped	1.5 Months

HOW YOU'LL LEARN

A Week in the Programme

Every week follows the same rhythm: learn live, practise in labs, build your project, and get reviewed by a mentor. Consistency compounds — 26 weeks of this rhythm produces engineers.



Live Mentor Sessions

Concept deep-dives and live coding with your mentor. Interactive, recorded, and built around real product problems.



Engineering Labs

Structured hands-on labs after every session — you write code the same day you learn the concept.



Code Reviews

Weekly personal code reviews from mentors, exactly like a professional engineering team.



AI-Assisted Workflow

Use Copilot, Cursor and Claude in every lab — and learn to verify, refactor and own the code they produce.



Project Checkpoints

Every module ends with a graded, deployed deliverable that goes straight into your portfolio.



1:1 Mentorship

Personal guidance on progress, blockers and career direction throughout the 180-day journey.

Time commitment: 15–18 hours per week — roughly 2 live sessions, 3 lab blocks and one project/review block. Evenings and weekends friendly.

1

Foundations of AI-Assisted Full-Stack Development

Weeks 1–3

Deliverable: AI-Built Mini Product

Module goal: understand how the modern web fits together, set up a professional development environment, and learn to code with AI as your pair programmer — with judgement.

HOW THE MODERN WEB WORKS

- Clients, servers, HTTP & how apps fit together
- The anatomy of a full-stack product
- Developer environment: VS Code & the terminal
- Git & GitHub workflows from day one
- Thinking like an engineer: problem decomposition

CODING WITH AI FROM DAY ONE

- AI pair-programming: Copilot, Cursor & Claude
- Prompting for code, refactoring & debugging
- Reading & verifying AI-generated code
- When to trust AI — and when not to
- Shipping your first AI-assisted mini product

ENGINEERING LABS

Set up your full dev environment · publish your first repository · build and deploy a mini product with AI assistance in week 3.

You'll be able to

Navigate a codebase, use Git confidently and ship a small product with AI-assisted workflows.

Tools

VS Code · Git · GitHub · GitHub Copilot · Cursor · Claude

2

Web Platform Foundations & UI Systems

Weeks 4–7

Deliverable: Responsive UI System

Module goal: master the web platform — semantic HTML, modern CSS and responsive layouts — then level up to building reusable, systematic UI components.

THE WEB PLATFORM

- Semantic HTML5 & accessibility fundamentals
- CSS3 deep dive: the box model, Flexbox & Grid
- Responsive, mobile-first design patterns
- Forms, media & browser rendering basics
- Debugging layouts with browser DevTools

BUILDING UI SYSTEMS

- Design systems & component thinking
- Utility-first styling with Tailwind CSS
- Typography, spacing & colour systems
- Translating Figma designs into code
- Building & publishing a complete UI kit

ENGINEERING LABS

Clone real product interfaces · build a responsive multi-page site · design and ship your own reusable UI system by week 7.

You'll be able to

Turn any design into a pixel-accurate, responsive, accessible interface — systematically.

Tools

HTML5 · CSS3 · Tailwind CSS · Figma · Netlify

3

JavaScript Runtime Systems, Browser APIs & Product Engineering Labs

Weeks 8–11

Deliverable: Interactive Product Lab

Module goal: go deep on JavaScript — the language, the runtime and the browser APIs — and apply it in weekly product engineering labs that build real, interactive products.

JAVASCRIPT RUNTIME SYSTEMS

- Language fundamentals & ES6+ features
- The event loop, call stack & memory model
- Async JavaScript: promises & async/await
- Modules, tooling & the npm ecosystem
- Error handling & defensive programming

BROWSER APIS & ENGINEERING LABS

- DOM manipulation & event-driven UIs
- Fetch, storage, history & observer APIs
- Consuming real REST APIs with live data
- Weekly product engineering labs
- Building data-driven interactive products

ENGINEERING LABS

A live search experience · a data dashboard from a public API · a browser-based product game · your own interactive product by week 11.

You'll be able to

Reason about how JavaScript actually executes, and build interactive products on live data.

Tools

JavaScript ES6+ · Browser DevTools · npm · Vite · REST APIs

4

React, TypeScript & Frontend Product Architecture

Weeks 12–16

Deliverable: Typed React Product App

Module goal: build production-grade frontends — typed React applications with clean architecture, robust state management and real-world performance discipline.

REACT & TYPESCRIPT

- Components, props, state & hooks
- TypeScript fundamentals & typed components
- Routing & data-fetching patterns
- State management: Context & Redux Toolkit
- Forms, validation & user input at scale

FRONTEND PRODUCT ARCHITECTURE

- Scalable project structure & code organisation
- Performance: memoisation & code splitting
- Component testing fundamentals
- Accessibility & production polish
- Architecting a production-grade frontend

ENGINEERING LABS

Migrate a JavaScript app to TypeScript · build a multi-page typed product app · performance-audit and optimise it before shipping in week 16.

You'll be able to

Ship typed, tested, well-architected React products that other engineers can work in.

Tools

React · TypeScript · Redux Toolkit · React Router · Jest

5

Backend Product Systems, APIs & Production Engineering

Weeks 17–20

Deliverable: Deployed Full-Stack App

Module goal: design and run the server side — secure APIs, sound data models and the production engineering practices that keep systems alive under real traffic.

BACKEND PRODUCT SYSTEMS

- Node.js & Express: servers and routing
- REST API design & middleware patterns
- MongoDB data modelling with Mongoose
- Authentication: JWT, sessions & access control
- Validation, error handling & API security

PRODUCTION ENGINEERING

- Testing backend systems with confidence
- Docker fundamentals & containerisation
- CI/CD pipelines with GitHub Actions
- Deploying to Vercel, Render & AWS
- Monitoring, logging & failure recovery

ENGINEERING LABS

Build a secure REST API · connect it to your React frontend · containerise, deploy and monitor the complete product in week 20.

You'll be able to

Take a product from local code to a monitored, deployed system that survives real users.

Tools

Node.js · Express · MongoDB · JWT · Docker · GitHub Actions · AWS



Live Capstone Project

Final 1.5 Months

Deliverable: Live Full-Stack Product

The finale: six weeks to design, build and ship a complete product — working like a real engineering team, with mentor code reviews and a public Demo Day.

WEEKS 1–2 · DESIGN & PLANNING

- Choose a real-world product brief
- Tracks: E-commerce, SaaS or Social platform
- Wireframes, data models & system architecture
- Sprint planning & milestone definition

WEEKS 3–6 · BUILD, REVIEW & DEMO DAY

- Build full-stack with AI-assisted workflows
- Weekly mentor code reviews & sprint demos
- Deploy to production with CI/CD
- Present on Demo Day · final certification



Dedicated Mentor

A personal mentor guides your architecture, unblocks you and reviews every sprint.



Demo Day

Present your live product to mentors, peers and invited reviewers from industry.

You'll graduate with

A live, deployed product with real users' flows — the centrepiece of your engineering portfolio.

Support

Dedicated Mentor · Code Reviews · Demo Day · Certificate

BUILD AS YOU LEARN

10+ Projects for Your Portfolio

Every project below is built, reviewed and deployed during the programme — a public, verifiable record of what you can do.

1

AI-Assisted Mini Product

Your first shipped product, built with AI pair-programming in week 3.

2

Responsive Multi-Page Site

A pixel-accurate, mobile-first site built from a real design brief.

3

Reusable UI System

Your own component kit with typography, colour and layout systems.

4

Live Search Experience

Debounce, keyboard-friendly search over a live dataset.

5

API Data Dashboard

An interactive dashboard consuming a public REST API.

6

Interactive Product Lab

A data-driven browser product of your own design — module 3 finale.

7

Typed React Product App

A multi-page React + TypeScript app with real state management.

8

Secure REST API

An authenticated Node/Express API with JWT and role-based access.

9

Full-Stack MERN Application

Frontend + backend + database, wired together and deployed.

10

Containerised CI/CD Deploy

Dockerised app shipping through a GitHub Actions pipeline.

★

Capstone: Live Product

E-commerce, SaaS or Social platform — your flagship, live on the internet.

TECHNOLOGY STACK

The Complete Product Engineering Toolkit

Everything below is used hands-on in labs and projects — not just mentioned on a slide.

Web Platform & Frontend

HTML5 CSS3 Tailwind CSS JavaScript ES6+
React TypeScript Redux Toolkit
React Router

Backend & Database

Node.js Express MongoDB Mongoose
JWT REST APIs

AI-Assisted Development

GitHub Copilot Cursor Claude ChatGPT

DevOps & Production

Git GitHub Docker GitHub Actions
Vercel Render AWS

Testing & Quality

Jest React Testing Library Postman ESLint

Design & Collaboration

Figma VS Code Browser DevTools Notion

MEET YOUR MENTORS

Learn from Engineers Who Ship Every Week

Your mentors are practising engineers — building, deploying and maintaining production systems while they teach. Small cohorts mean they know your code personally.



Mr. Gowrish H B

Agentic AI Engineer & Lead Mentor

5+ YEARS EXPERIENCE

Python

LangChain

LangGraph

OpenAI

FastAPI

Gowrish builds production-grade autonomous agent systems for enterprise clients, specialising in multi-agent orchestration and tool-calling architectures. He leads the AI-assisted engineering track, taking learners from prompt fundamentals to deploying goal-driven systems that operate reliably in the field.



Mr. Padmesh

DevOps & Cloud Infrastructure Mentor

6+ YEARS EXPERIENCE

Docker

Kubernetes

AWS

CI/CD

Terraform

Padmesh focuses on the infrastructure layer that keeps systems running reliably in production, covering containerisation, orchestration and cloud deployment pipelines. He mentors learners on building observable, scalable systems that survive real-world traffic and failure conditions.

MEET YOUR MENTORS

Product & Foundations

**Mr. Parikshith T T****Full Stack Engineer & Product Mentor****4+ YEARS EXPERIENCE**

React

Next.js

TypeScript

Node.js

Tailwind CSS

Parikshith brings production engineering discipline to the programme, helping learners turn prototypes into complete, deployable products. He covers everything from API design and authentication to deployment, so learners graduate with a real portfolio — not just notebooks.

**Ms. Aishwarya U****AI/ML Foundation Mentor****4+ YEARS EXPERIENCE**

Python

Machine Learning

Pandas

Scikit-learn

FastAPI

Aishwarya anchors the foundations of the programme, making sure every learner — regardless of background — builds the core programming and problem-solving muscle the rest of the curriculum stands on. She mentors the early modules and guides learners through their first shipped projects.

Mentor access: weekly live sessions, personal code reviews, 1:1 career guidance — and continued mentor access through the alumni network after you graduate.

LEARNING OUTCOMES

What You'll Walk Away With

By Demo Day, these aren't aspirations — they're demonstrated, reviewed and deployed capabilities.

✓ Web Platform Mastery

Build accessible, responsive UI systems with modern HTML, CSS and Tailwind.

✓ JavaScript Depth

Understand runtime systems, async patterns and browser APIs at a professional level.

✓ Frontend Architecture

Ship typed, tested, scalable React products with TypeScript.

✓ Backend Engineering

Design secure APIs, model data soundly and run production systems.

✓ Production Discipline

Containerise, deploy, monitor and recover systems under real conditions.

✓ AI-Assisted Velocity

Code faster and smarter with professional AI workflows — and own every line.

ROLES THIS PREPARES YOU FOR

Full Stack Developer

Frontend Engineer

Backend Engineer

React Developer

Node.js Developer

Product Engineer

Software Engineer — AI-Native Teams

Proof over promises: every outcome above maps to a deployed project in your portfolio that interviewers can open and inspect.

CAREER SUPPORT

From Graduation to Offer Letter

Career support runs alongside the curriculum from month four — so by the time you finish your capstone, your profile, portfolio and interview skills are already sharp.

✓ **Portfolio & GitHub review** — mentors polish your projects into an interview-ready portfolio

✓ **Resume & LinkedIn optimisation** — engineered for recruiter search and ATS screening

✓ **Mock technical interviews** — DSA-lite, practical coding rounds and system walkthroughs

✓ **Behavioural interview coaching** — telling your story with confidence

✓ **Hiring-partner referrals** — direct introductions through the alumni referral network

✓ **Salary negotiation guidance** — evaluate and negotiate offers with mentor support



Alumni Community

Lifetime access to the alumni network, meetups and continued curriculum updates after your 180-day window.



Continued Mentor Access

Career questions don't stop at graduation — neither does mentor access, even after placement.

ASSESSMENT

How You're Evaluated

Assessment mirrors real engineering: continuous, practical and reviewed by humans who read your code.

Quizzes & Assignments

20%

Module Projects (×5)

40%

Final Capstone Project

40%

Eligibility

- ✓ Open to students & graduates — any field
- ✓ Career changers welcome
- ✓ 15–18 hours per week commitment
- ✓ No prior coding experience needed
- ✓ Laptop + stable internet connection

Certification

- ✓ Empowers Academy Professional Certificate
- ✓ LinkedIn-verified credential
- ✓ GitHub portfolio of 10+ projects
- ✓ Capstone Demo Day recording
- ✓ Lifetime alumni network access

Pass criteria: complete all five module deliverables, maintain 70%+ overall, and successfully demo your capstone. Mentors work with you to get there — nobody is left behind silently.

ADMISSIONS

Four Steps to Your Seat

1

Apply Online

Fill the short application at empowersacademy.com — it takes under 10 minutes.

2

Counselling Call

A 1:1 call to understand your goals and confirm the programme is the right fit.

3

Reserve Your Seat

Cohorts are capped at 8–10 learners. Confirm enrolment to lock your seat.

4

Onboarding Week

Environment setup, community access and a warm-up lab before Day 1.

FREQUENTLY ASKED QUESTIONS

Q. I've never coded. Can I really do this?

Yes — the programme is designed from zero. Module 1 assumes nothing, and small cohorts mean mentors adapt to your pace.

Q. Can I do this alongside a job or college?

Yes. Live sessions are scheduled for working learners and everything is recorded. Plan for 15–18 focused hours per week.

Q. What if I fall behind?

Your mentor spots it early and builds a catch-up plan with you. Recordings, labs and 1:1 support stay available throughout.

Q. Is the certificate recognised?

Your certificate is LinkedIn-verifiable — but your real credential is a public portfolio of deployed products interviewers can inspect.

SAMPLE CERTIFICATE

This Could Be Your Certificate

Every learner who completes the Full Stack Development Programme graduates with a personalised, verifiable certificate like the one shown below — proof of the projects, skills and production experience you'll walk away with.

Sample only: issued to a learner from an earlier cohort. Names, dates and IDs are unique to each graduate and verified via QR code on completion.



Your Engineering Career Starts **This Cohort.**

Seats are limited to 8–10 learners per cohort. Apply now and start building products that prove what you can do.

Apply at empowersacademy.com →

WEBSITE

empowersacademy.com

EMAIL

admissions@empowersacademy.com

FORMAT

100% Online · Live + Self-Paced