

SkillCred

# Fullstack Development Program

Build Real Products. Get Hired. Launch Startups.

8

Weeks

96

Hours

4

Projects

6

Days/Week

HYBRID MODEL

2 Solo + 1 Pair + 1 Group Capstone

Dual Track

8W Standard + 4W Fast Track

Mentor Verified

Every project reviewed

PAT Certified

Score visible to all HRs

# 8-Week Syllabus

Mon-Sat | 2 Hrs/Day | 48 Sessions | 96 Contact Hours

## 01 Foundations & Dev Environment

HTML5, CSS3, JS ES6+, Git, Node.js, npm, REST APIs, Postman

SOLO 1 START

## 02 Frontend with React

React 18 hooks, Context API, Router v6, Tailwind, Axios, forms

SOLO 1 DELIVERY

## 03 Backend & Databases

Express.js, MongoDB / PostgreSQL, CRUD, middleware, data modeling

SOLO 2 START

## 04 Auth, Security & Real-Time

JWT auth, OAuth 2.0, RBAC, WebSockets, Socket.io, CORS

SOLO 2 DELIVERY

## 05 Advanced Patterns

Redux / Zustand, Redis caching, S3 uploads, background jobs

PAIR START

## 06 Testing & Code Quality

Jest, Supertest, Cypress E2E, TDD, ESLint, Swagger docs

PAIR DELIVERY

## 07 DevOps & Deployment

Docker, Compose, GitHub Actions CI/CD, cloud deploy, monitoring

CAPSTONE START

## 08 Capstone Sprint & Demo

Performance, lazy loading, SEO, accessibility, live demo to panel

CAPSTONE DELIVERY

### DAILY 2-HOUR SESSION

0:00-0:10

Recap

0:10-0:40

Concept

0:40-1:30

Build Sprint

1:30-1:50

Standup

1:50-2:00

Wrap

# Your 4 Portfolio Projects

2 Solo (individual) + 1 Pair (collaborative) + 1 Group Capstone (team)

SOLO 1 | INDIVIDUAL | Weeks 1-2

Difficulty:

## Developer Portfolio & Blog Engine

React 18 + Tailwind CSS portfolio with dynamic project cards, integrated markdown blog with syntax highlighting, contact form (SendGrid), dark/light theme, SEO meta tags. Lighthouse >90, mobile responsive, 20+ Git commits. Deployed to Vercel.

Tech: React 18, Router v6, Tailwind CSS, react-markdown, REST API, Vercel | HR Signal: Junior Fullstack hire bar

SOLO 2 | INDIVIDUAL | Weeks 3-4

Difficulty:

## Fullstack Task Manager API + Dashboard

Express.js REST API + React dashboard with JWT auth (access + refresh tokens), Kanban / List / Calendar views, drag-and-drop, file uploads to S3, activity log, full-text search. API <200ms, Swagger docs, 10+ unit tests, indexed DB queries.

Tech: React, Redux/Zustand, Express.js, MongoDB/PostgreSQL, Prisma, JWT, Multer, Swagger | HR Signal: Mid-level Fullstack hire bar

PAIR PROJECT | 2-3 STUDENTS | Weeks 5-6

Difficulty:

## Real-Time Collaborative Document Editor

Rich text editor (Tiptap/Slate.js) with WebSocket real-time collaboration, live cursors and presence indicators, room-based sessions, document versioning with rollback, export to Markdown/PDF. Redis pub/sub for scalability. OT/CRDT conflict resolution. <100ms sync, 10 concurrent users, 15+ tests.

Tech: React, Tiptap/Slate.js, Socket.io, Redis, MongoDB/PostgreSQL, JWT, Jest, Cypress

Student A: WebSocket engine, Redis, conflict resolution, sync, APIs | Student B: Editor UI, rendering, export, E2E testing, UX

GROUP CAPSTONE | 5 STUDENTS | Weeks 7-8 | Pick 1 of 3

Difficulty:

## Option 1: SaaS Project Management Platform

Multi-tenant SaaS — team workspaces, Kanban/Timeline/Sprint views, task dependencies, Stripe billing (free/pro/enterprise), real-time WebSocket updates, notifications, analytics dashboard, webhook API. React + TypeScript + NestJS + PostgreSQL + Redis + Docker + CI/CD + Prometheus.

## Option 2: AI-Powered Learning Management System

Course creation, AI learning paths, adaptive quizzes, student/instructor dashboards, certificates, payment gateway. React + TypeScript + NestJS + PostgreSQL + OpenAI API + Stripe/Razorpay.

## Option 3: Multi-Vendor E-Commerce Marketplace

Vendor onboarding, buyer experience, order tracking, Stripe Connect payment splits, admin dashboard, Elasticsearch search, inventory alerts. React + TypeScript + NestJS + PostgreSQL + Stripe Connect + Elasticsearch.

Module Ownership (all capstones): A: Auth, core | B: Features, views | C: Real-time/AI | D: Payments, analytics | E: CI/CD, Docker, monitoring, docs

# Two Career Pathways

Both available simultaneously – not mutually exclusive

## Employment Track

1. Complete 4 verified projects
2. Take PAT certification exam
3. Portfolio published to HR Portal
4. HRs discover and shortlist you
5. Interview scheduled via platform
6. Offer extended – placement tracked

## Startup Track

1. Build investor-grade capstone
2. Mentor verifies for Investor Portal
3. List project with pitch deck & demo
4. Investors discover your project
5. Pitch invitation and presentation
6. Startup mentorship and funding

## Project Assessment Test (PAT)

Your certification score – visible to every HR on the platform

MCQs 20% | Coding Challenge 25% | Architecture Design 20% | Viva Defense 25% | Peer Review 10%

- 90–100** **Elite**  
Top 5% – senior roles, startup founding
- 75–89** **Pro**  
Job-ready with solid fundamentals
- 60–74** **Certified**  
Entry-level – core concepts proven

## Mentor Verification – The Trust Engine

No project reaches HR or Investor portal without rigorous mentor review.

Code Quality 25% | Functionality 25% | Architecture 20% | Docs 15% | Deployment 15%

## Ready to Build Your Future?

4 verified projects | PAT certification | Two career pathways

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