



techventive.io
US Engineering Studio

Cohort enrolling now

info@techventive.io · 202-709-6940
5010 Sunnyside Ave, Suite 108, Beltsville, MD 20705
www.techventive.io

FULL STACK DEVELOPMENT BOOTCAMP

Full Stack *Development*

6 weeks · Beginner+ to Intermediate · Live + recorded

A hands-on full-stack curriculum covering modern frontend (React + Next.js + TypeScript + Tailwind), backend (Node.js + REST APIs + auth), database (PostgreSQL + Prisma ORM), testing, and one-click cloud deployment — delivered by senior US engineers who ship full-stack apps to production every day.

10

CORE MODULES

35+

PRACTICAL SKILLS

5+

PROJECT TRACKS

1:1

CAREER SUPPORT

The *production stack* you'll master

Each tool taught with the workflows and failure modes practitioners actually meet on the job.

01

HTML / CSS

Web fundamentals

02

TypeScript

Typed JavaScript

	03 React Frontend library
	04 Next.js Full-stack framework
	05 Tailwind Utility CSS
	06 Node.js Backend runtime
	07 PostgreSQL Relational DB
	08 Prisma Type-safe ORM
	09 NextAuth Authentication
	10 Vercel Cloud deployment

Foundation *modules*

First half of the curriculum – core fundamentals and the most common day-to-day skills.

01 Web Fundamentals HTML5, CSS3, the browser, HTTP, the DOM, semantic markup, accessibility, responsive design, and the rendering pipeline.
02 JavaScript & TypeScript Modern JS (ES2024), async/await, modules, generics, types, structural typing, and the patterns full-stack devs use every day.
03

React Fundamentals

Components, hooks (useState/useEffect/useReducer/useContext), forms, controlled/uncontrolled inputs, performance, and React Testing Library.

04

Next.js App Router

File-system routing, layouts, server components, client components, server actions, SSR vs. SSG vs. ISR, streaming, and the data-fetching model.

05

Styling with Tailwind

Utility-first CSS, responsive design tokens, dark mode, design systems, animations, and shipping a polished UI without bespoke CSS.

Freshers

Build a full-stack portfolio and land your first dev / SWE role.

Backend Devs

Add modern frontend (React + Next.js + Tailwind) and own the full stack.

Frontend Devs

Add backend, database, and deployment skills — become a full-stack hire.

Career Switchers

Move from non-IT or adjacent fields into modern web development.

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Advanced *modules*

Second half – production patterns, real-world operations, and the senior-level depth.

06

Backend with Node.js

Express, REST API design, middleware, validation (zod), error handling, OpenAPI docs, and the patterns that make backends maintainable.

07

Database & ORM

PostgreSQL fundamentals, Prisma schema, migrations, relations, queries, indexes, transactions, the N+1 trap, and seeding for development.

08

Authentication & Authorization

NextAuth.js, OAuth (Google / GitHub), email magic links, sessions vs. JWTs, RBAC, route protection, and password hashing.

09

Testing & Quality

Vitest unit tests, Playwright E2E, component testing, code coverage, ESLint + Prettier, pre-commit hooks, and CI on GitHub Actions.

Deployment & Capstone

Vercel deployment, env management, preview deployments, monitoring (Sentry), and shipping a full-stack capstone end-to-end.

🔑 Hands-on project outcomes

- Build and ship a full-stack web app (Next.js + Node + PostgreSQL).
- Design REST APIs with proper validation and error handling.
- Model a real schema in PostgreSQL with Prisma migrations.
- Implement authentication with OAuth and protected routes.
- Style a production-grade UI with Tailwind and Radix UI.
- Write Vitest unit tests and Playwright E2E tests with CI.
- Deploy to Vercel with env management and preview deployments.
- Publish a GitHub portfolio with 3+ live full-stack projects.

🎓 Course learnings

- Modern full-stack JavaScript / TypeScript end to end.
- React + Next.js App Router at production depth.
- REST APIs, database modeling, and ORM patterns.
- Authentication and authorization in real apps.
- Testing fundamentals across UI, unit, and E2E.
- Cloud deployment + observability for full-stack apps.

Career readiness, *built in.*

techventive.io turns this curriculum into job-ready positioning — project explanation, résumé and LinkedIn rewrites, GitHub portfolio polish, technical interview preparation, and placement-focused guidance through to the offer letter.

Full Stack Developer

Frontend Engineer

Backend Engineer

Next.js Developer

React Developer

Junior SWE / SDE

Freshers

Backend Devs

Frontend Devs

Career Switchers

Start your Full Stack Development journey with techventive.io.

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