

Devarshi Patel

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SUMMARY

Software Application Engineer specializing in full-stack development with extensive experience delivering scalable React, TypeScript, Next.js, Node.js, and Python solutions on AWS and PostgreSQL. Designed AI-driven pipelines and optimized backend performance, cutting load times by over 20% while supporting more than 1,100 active users. Proven ability to architect cloud-native platforms and lead end-to-end product delivery. Seeking to apply this expertise to drive high-impact, user-focused applications for your organization.

EDUCATION

The George Washington University, School of Engineering & Applied Science

Master of Science, Computer Science (GPA: 3.79)

Aug 2023 - May 2025

Ramaiah University of Applied Science

Bachelor of Technology, Computer Science (GPA: 8.9)

Aug 2018 - Jul 2022

EXPERIENCE

Torus Transforms | Software Application Engineer

Jul 2025 - Present

- Architected a full-stack platform with React, Node.js, and C# that connected over 1,100 learners and volunteers, and deployed it to AWS using Docker and Terraform to streamline cloud infrastructure
- Engineered Python-driven inference pipelines using TensorFlow to provide real-time grammar correction and translation for Oregon's six most common languages, enabling teachers to deliver culturally responsive instruction and reducing manual editing time
- Led Figma-to-production workflows to build a linguistically responsive UI, specifically polishing typography and motion for better accessibility across diverse language scripts.
- Integrated FireCMS and Firebase to manage real-time data for the app's messaging and quiz modules, resulting in a 25% performance boost.

Inside FPV Ltd | Software Developer

Sep 2022 - Jun 2023

- Architected a high-performance React Native (TypeScript) mobile interface that serves as the primary controller for Plug-and-Fly drones, eliminating device fragmentation across Android and iOS and reducing related support tickets
- Overhauled the pilot registration pipeline by integrating AWS Cognito and Node.js microservices. By streamlining the authentication and third-party API data flow, I slashed user onboarding time by 20%, allowing customers to go from unboxing to their first flight significantly faster
- Maintained a multi-tier MVC web-based fleet management platform, using object-oriented principles to manage drone telemetry data. I personally resolved over 30 critical technical bugs with 98% code efficiency, ensuring the platform remained stable during high-concurrency flight windows.
- Partnered with the hardware and firmware teams to lead code reviews and unit testing for the companion app. By establishing a rigorous CI/CD workflow on AWS, we reduced post-deployment bugs by 40%, preventing critical software failures during live drone operations.

Sckilled Inc | Web Development Intern

Sep 2021 - Jan 2022

- Built a responsive Angular and ASP.NET-based job filtering app, improving search performance by 40% and scalability for hundreds of daily active users.
- Created REST APIs and integrated them with the frontend, powering a system used by hundreds of daily active job seekers.

TECHNICAL PROJECTS

Stocklabs

- Developed a full-stack stock intelligence platform built with Next.js 15 (App Router), React 19, Tailwind, and TypeScript, integrating Finnhub APIs for real-time quotes, watchlists, and portfolio analytics, with MongoDB Atlas for multi-tenant persistence and Better Auth for secure cookie-based authentication.
- Built AI-powered, event-driven workflows using Ingest and LLM APIs (Gemini) to autonomously generate market insights, alerts, and summaries-laying groundwork for agent-like financial intelligence systems.
- Engineered scalable API route handlers for alerts, performance metrics, recommendations, insider sentiment, and market status, ensuring high-performance data flow between the client and server with optimized caching and streaming hooks.

Build A Production Level API

- Built a production-grade Node.js (ESM) + Express 5 REST API with a layered architecture for user management and authentication; validated requests with Zod and returned consistent HTTP status codes to prevent bad payloads from reaching business logic.
- Implemented secure authentication using JWT (jsonwebtoken), stored in HttpOnly cookies (via cookie-parser), with RBAC enforced in middleware; hashed passwords with bcrypt and hardened the API with Helmet + Arcjet to mitigate common abuse patterns.
- Delivered a production-ready workflow using PostgreSQL on Neon with Drizzle ORM + drizzle-kit migrations/studio; instrumented observability with Winston + Morgan; tested endpoints with Jest + Supertest; and containerized dev/prod runs with Docker for repeatable environments.

Build A Convolutional Neural Network

- Implemented an EfficientNetB0-based convolutional neural network in TensorFlow/Keras to classify chest X-ray images into Pneumonia, COVID-19, Tuberculosis, and normal classes, optimising preprocessing, training, and evaluation pipelines to improve diagnostic workflow accuracy and efficiency.

ProjectFlow

- Built a project management platform in Next.js + Node.js, used by 30+ students and interns to track tasks and share files.
- Integrated AWS Cognito authentication and AWS S3 file storage, ensuring secure user management and scalable handling of attachments, while optimising API performance with Redux Toolkit Query and Prisma ORM.

TECHNICAL SKILLS

- Programming:** Python, JavaScript (ES6+), TypeScript, Java, C#, C++
- Frontend:** React.js, Next.js, Angular, Tailwind CSS, Redux Toolkit, RTK Query, HTML, CSS
- Backend:** REST APIs, Node.js, Express.js, MongoDB, PostgreSQL, MySQL, Microservices Architecture
- Cloud & DevOps:** AWS (EC2, S3, RDS, Cognito), Azure, Firebase, Docker, Containerization, CI/CD (GitLab, Jenkins)
- Mobile Development:** React Native, Flutter, iOS Development, Android Development, Redux