

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 <i>Master of Science, Computer Science</i> (GPA: 3.79)	Aug 2023 - May 2025
Ramaiah University of Applied Science <i>Bachelor of Technology, Computer Science</i> (GPA: 8.9)	Aug 2018 - Jul 2022

EXPERIENCE

Torus Transforms <i>Software Application Engineer</i>	Jul 2025 - Present
<ul style="list-style-type: none">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 infrastructureEngineered 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 timeLed 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 <i>Software Developer</i>	Sep 2022 - Jun 2023

Inside FPV Ltd <i>Software Developer</i>	Sep 2022 - Jun 2023
<ul style="list-style-type: none">Architected a high-performance React Native (TypeScript) mobile interface to serve as the primary controller for "Plug-and-Fly" drones, solving the bottleneck of device fragmentation across Android and iOS.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 <i>Web Development Intern</i>	Sep 2021 - Jan 2022
<ul style="list-style-type: none">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 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.

InventSync

- Developed and deployed a full-stack inventory management dashboard using Next.js, Tailwind CSS, and Material UI Data Grid, enabling real-time tracking of over 1,000 product SKUs.
- Integrated Redux Toolkit and RTK Query for efficient state management and API interaction, optimising client-side performance and ensuring consistent data synchronisation across components.

TECHNICAL SKILLS

- 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)
- Frontend:** React.js, Next.js, Angular, Tailwind CSS, Redux Toolkit, RTK Query, HTML, CSS
- Mobile Development:** React Native, Flutter, iOS Development, Android Development, Redux
- Programming:** Python, JavaScript (ES6+), TypeScript, Java, C#, C++