

Devarshi Patel

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EDUCATION

The George Washington University, School of Engineering & Applied Science

Washington, DC

Master of Science in Computer Science, GPA: - 3.9.

August 2023- May 2025

Relevant Coursework: - Software Development, Object-Oriented Design, Agile Development, Cloud Computing, Data Structure & Algorithms, Networking Concepts, OS Fundamentals.

TECHNICAL SKILLS

- **Programming:** C/C++, Python, Java, JavaScript.
- **Databases:** PostgreSQL, MySQL, MongoDB, SQL, familiarity with DB2.
- **Framework:** HTML5, CSS3, Node.js, React.js, Angular.js, Spring Boot.
- **Cloud & DevOps:** AWS (Lambda, S3, DynamoDB, EC2), Google Cloud, Kubernetes, CI/CD.
- **Software Development:** Object-Oriented Design, Agile Development, CI/CD, Git.

WORK EXPERIENCE

Inside FPV Ltd | Software Developer | Surat, India

September 2022 - June 2023

- Developed scalable web applications using React Native (TypeScript) to enhance efficiency and maintainability.
- Designed and implemented serverless microservices with AWS Lambda (Python) to ensure high availability and fault tolerance.
- Built robust backend systems with Node.js, integrating third-party APIs (Stripe, AWS Cognito, Firebase) to bolster security and enable seamless integration.
- Collaborated with cross-functional teams to resolve technical issues through code reviews, unit testing, and troubleshooting, ensuring minimal business disruption.

Technocolabs Inc | Data Analyst Intern | Bangalore, India

June 2022 - August 2022

- Devised and optimized machine learning models using Python, reducing computation time by 20%.
- Processed large-scale data sets in distributed environments and collaborated with teams to support data-driven decision-making.

Skilled Inc | Web Development Intern | Remote

September 2021 - January 2022

- Developed a full-stack job search platform using React.js, Flutter, and Node.js, focusing on responsive front-end design and performance optimization.
- Integrated RESTful services to improve application reliability and data flow.

TECHNICAL PROJECTS

InventSync | *Next.js, Node.js, Express.js, AWS EC2, AWS S3, API Gateway.*

- Developed and deployed, a full-stack inventory management dashboard using Next.js, Tailwind CSS, and Material UI Data Grid, enabling real-time tracking, analytics, and control of product inventories.
- Integrated Redux Toolkit and RTK Query for efficient state management and API interaction, optimizing client-side performance and ensuring consistent data synchronization across components.
- Built a scalable backend using Node.js and Prisma ORM and deployed on AWS with services including EC2 (backend hosting), RDS (PostgreSQL DB), S3, API Gateway, and Amplify, along with AWS cost and networking optimization.

VoiceForge AI | *Python, PyTorch, FastAPI, Docker, Next.js, Auth.js, GitHub.*

- Built and deployed a full-stack ElevenLabs clone with different UI, enhance efficiency and more user-friendly offering text-to-speech, voice conversion, and audio generation by self-hosting and fine-tuning cutting-edge AI models: StyleTTS2, Seed-VC, and Make-An-Audio, eliminating reliance on third-party APIs.
- Developed an AI backend using FastAPI, Python, and PyTorch, with model endpoints containerized via Docker and orchestrated with inference queues powered by Inngest, ensuring scalable and stable real-time voice generation.
- Created a full-featured web app using the T3 Stack with secure authentication, a credit-based usage system, and S3 integration for storing and managing generated audio.

QuickMart Ecommerce | *React, Node.js, Express.js, MongoDB.*

- Developed a full-featured e-commerce platform inspired by Blinkit using the MERN stack, with robust features like product and category management, admin panel, secure JWT-based authentication with access/refresh tokens, OTP-based email verification, and password recovery functionality.

Uber Clone | *Expo, React Native, Typescript, Firebase Auth, Google Maps SDK, Stripe SDK.*

- Built a cross-platform mobile app (Uber Clone) using React Native, featuring real-time location tracking with Google Maps, live ride selection, and dynamic route plotting via Google Places Autocomplete for seamless ride discovery and booking.
- Implemented secure authentication and authorization, including Email/Password with verification, Google OAuth, and Stripe-powered in-app payments, along with a role-based access system and OTP-protected password recovery.