

# GAURAV UPADHYAY

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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## SUMMARY

Full Stack Software Engineer with **4+ years** of experience building scalable systems using **Java, Spring Boot, Node.js, React, and AWS**. Strong background in API design, distributed backend systems, CI/CD automation, and AI-driven solutions. Specialist in high-availability AWS architectures and GenAI integration, delivering performance improvements of up to 83% for massive user bases (1M+).

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## SKILLS

**Languages:** Java, Python, TypeScript, Kotlin, JavaScript

**Backend:** Spring Boot, Node.js, REST APIs, Microservices

**Frontend/Mobile:** React, Angular, Next.js, React Native, Expo, Bootstrap

**Cloud/AI:** AWS, Docker, Kubernetes, Jenkins, GitHub Actions, LangChain, OpenAI API, RAG

**Databases:** PostgreSQL, MongoDB, MySQL, ChromaDB

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## WORK EXPERIENCE

### AMAZON WEB SERVICES | Software Development Engineer

Seattle | Jul 2022 – Jun 2025

- Re-architected the legacy monolithic Managed Notifications workflow across AWS Console Mobile by designing Java and Node.js microservices and S3-backed asset pipelines, enhancing customer experience via real-time delivery and increasing engagement by **83%** for **1M+** users.
- Led the Services Page API redesign, **collaborating with iOS/Android teams** to integrate a distributed Node.js backend with S3 metadata management, driving a **93.6%** traffic increase on iOS and **83%** on Android.
- Launched the Universal Linking framework by designing Node.js microservices and a React-based navigation layer that standardized deep-link resolution, increasing Monthly Active Users by **88.2%** on iOS and **94.4%** on Android.
- Improved operational excellence by optimizing a **core shared library** used by **30** SDK-integrated APIs through service re-architecture and CloudWatch monitoring, reducing latency from **3.3s** to **800ms** and enhancing reliability for critical workloads.
- Mentored **2 new hires** through onboarding, design reviews, and deep dives on scalable design patterns and API standards, accelerating ramp-up time and improving ownership of high-impact features.
- Built a GenAI-powered RAG query engine using Python, LangChain, ChromaDB, and OpenAI embeddings to automate the analysis of large on-call documents, reducing manual investigation time.

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## PROJECTS

### FindYourCity | AI-Powered Geospatial Game

- Engineered a production-grade full-stack web application using **React 18** and **TypeScript**, utilizing **React Hooks** for efficient state management and FastAPI for precision scoring logic.
- Integrated **OpenStreetMap** via **Leaflet** to enhance location-based functionalities, coupled with **OpenAI** to generate dynamic persona clues and a resilient offline fallback mode.
- Established robust **version control workflows with Git** and automated CI/CD pipelines using GitHub Actions to deploy scalable services across **Render** (Backend) and **Vercel** (Frontend).

### Portfolio | Interactive Personal Website

- Developed a high-performance, responsive web application using **React 19** and **Vite**, utilizing **React Hooks** to drive interactive features like real-time clock synchronization and smooth navigation.
- Designed an immersive, mobile-first user interface with **Tailwind CSS** and **Lucide React**, implementing advanced web development techniques such as CSS scroll snapping, gradient masking, and glassmorphism effects.
- Architected a modular component system to manage dynamic content sections efficiently, ensuring code quality and maintainability through modern tooling like **ESLint v9** and **PostCSS**.

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## EDUCATION

Westcliff University | MBA in Business Management

Syracuse University | MS in Cybersecurity and Computer Science

San Francisco | Expected Jun 2027

Syracuse | May 2022