

# GAURAV UPADHYAY

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

## 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+).

## 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

## 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.

### STANLEY LAW OFFICES | Software Engineer Intern

Syracuse | Jun 2021 – Jun 2022

- Implemented secure data handling protocols using Java, Spring Boot, and MongoDB, **contributing to a 30% reduction** in security incidents.
- Developed full-stack analytical dashboards using Angular, Spring Boot, and MongoDB/MySQL to automate data workflows for IT/Risk teams, improving efficiency by **25%**.
- Engineered CI/CD pipelines utilizing Jenkins, GitHub, and containerized builds, reducing deployment time by **30%** and enabling rapid rollback strategies.

## PROJECTS

### FindYourCity | AI-Powered Geospatial Game

- Developed a full-stack geospatial platform with a **FastAPI** backend and **React** frontend, implementing **Haversine** distance algorithms and **exponential decay** logic for precision scoring.
- Integrated **OpenAI** to generate dynamic, location-specific persona clues and engineered a resilient offline fallback mode to maintain gameplay continuity.
- Automated CI/CD workflows using **GitHub Actions** to prevent backend idle shutdowns and deploy scalable services across **Render** (Backend) and **Vercel** (Frontend).

## EDUCATION

### Westcliff University | MBA in Business Management

San Francisco | Expected Jun 2027

### Syracuse University | MS in Cybersecurity and Computer Science

Syracuse | May 2022