

Abhijit Hanumeswara Kulkarni

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Education

University of Southern California

Expected May 2026

Masters of Science in Computer Science (GPA: 3.67 / 4.00)

Los Angeles, CA

- **Relevant Coursework:** Analysis of Algorithms, Autonomous Cyber Physical Systems (Python)

Experience

SnapRefund Inc.

Jul 2025 – Present

Software Engineer Intern

Los Angeles, CA

- Crafted a role-based Identity and Access Management (IAM) system with **PostgreSQL, NestJS, Vue.js, and Nuxt**, cutting user on-boarding time by **80%** through dynamic role/permission management and automated flows
- Led the team in integrating automated **unit and integration testing** using **Vitest and Playwright** into the CI/CD pipeline, which boosted code coverage to **50%** in **4 weeks**

Morgan Stanley – Accolite Digital

Jul 2021 – Jun 2024

Senior Software Engineer

Bangalore, KA

- Designed a real-time revenue dashboard in **Spring Boot, React, and Highcharts**, contributing to a **70%** increase in revenue through data-driven insights for the investment representatives
- Built and maintained a shared library of **StencilJS and Tailwind** components used across **5+** internal apps, driving UI consistency and speeding up feature delivery time by **90%**
- Adopted **LaunchDarkly** across frontend and backend services to facilitate real-time feature flagging with approval workflows, minimizing deployment risk by **75%** and supporting controlled, audit-friendly roll-outs at scale
- Implemented a centralized Notification Center powered by **Kafka and Redis** for async message delivery and low-latency rendering, preventing missed critical alerts and boosting user satisfaction scores by **80%**
- Achieved over **80%** test coverage across frontend and backend codebases employing **JUnit**, and enforced mandatory test checks via **Jenkins** CI/CD pipelines, strengthening regression safety and decreasing production defects by **50%**
- Led performance profiling with **DevTools, Grafana, and Prometheus**, bringing down UI and API latency by **45%**
- Delivered a gamified onboarding experience through a **React**-based Broken Mario tool integrated with backend REST APIs, enabling new hires to explore workflows, debug challenges, and understand system architecture, accelerating ramp-up time by **60%**

Morgan Stanley – Accolite Digital

Jul 2020 – Jun 2021

Software Engineer

Bangalore, KA

- Championed micro-service and micro-frontend adoption via **Spring Boot, React, and Webpack Module Federation**, unlocking independent deployments, mitigating single points of failure, and fortifying system resilience
- Rolled out a lightweight feature toggle mechanism in **MongoDB and Java**, enabling safe activation of production features

Projects

Personal Portfolio | [React, TypeScript, HTML5, Tailwind CSS, Github Pages](#) | [Repository](#) | [Live Demo](#)

- Created an interactive portfolio website in **React and TypeScript** using a component-based architecture, deployed via **GitHub Pages** for seamless updates and feature expansion

AI Debug Assistant | [Python, JavaScript, Svelte, FastAPI, Vercel](#) | [Repository](#) | [Live Demo](#)

- Developed an AI-powered debugging assistant that parses error logs and returns plain-English explanations, code fixes, and curated external resources backed by **Groq**-hosted LLMs

Technical Skills

Languages & Frameworks: TypeScript, React, Vue.js, NestJS, Java, Spring Boot, Python

Databases & Messaging: PostgreSQL, MySQL, MongoDB, Redis, Kafka

Testing & CI/CD: Vitest, Jest, Playwright

DevOps & Cloud: Docker, AWS, Jenkins, GitHub Actions

Tools & Monitoring: Grafana, Prometheus, Postman, REST, GraphQL, JIRA