Abhijit Hanumeswara Kulkarni

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Education

University of Southern California (Master of Science in Computer Science, GPA: 3.67/4.00**) Aug 2024 - May 2026 (Expected)**
Relevant Courses: Analysis of Algorithms, Multimedia Systems Design   Los Angeles, CA, USA

Skills

Languages & Frameworks: JavaScript/TypeScript (ES6), React, Vue.js, Svelte (Beginner), Java, Spring Boot, NestJS, Python
Databases & Messaging: PostgreSQL, MySQL, MongoDB, Firebase, Kafka, Redis
Tools & Monitoring: Grafana, Prometheus, Git, JIRA, LaunchDarkly, REST, GraphQL, Postman
DevOps & Cloud: Docker, Jenkins, AWS

Work Experience

SnapRefund Inc.   **Jun 2025 - Present**
Software Engineer Intern   Los Angeles, CA, USA
- Crafting a role-based Identity and Access Management (IAM) system with **PostgreSQL, NestJS, Vue.js,** and **Nuxt**, cutting user onboarding time by 80% through dynamic role/permission management and automated flows
- Managing environment variables and email templates with **AWS Session Manager** and **AWS Console**, streamlining deployment workflows and simplifying dynamic content updates

Accolite Digital | Morgan Stanley   **Jul 2021 - Jun 2024**
Senior Software Engineer   Bangalore, KA, India
- 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** + **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 rollouts 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%

Accolite Digital | Morgan Stanley   **Jul 2020 - Jun 2021**
Software Engineer   Bangalore, KA, India
- 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

Accolite Digital | Juspay Technologies   **Jan 2020 - Jun 2020**
Software Engineer Intern   Bangalore, KA, India
- Handled Single Sign-On for a payments dashboard leveraged by clients like CultFit, wiring up **OpenID Connect (OIDC)** with **JWT**-based auth flows and session handling in **Vanilla JavaScript** and **Node.js**

Technical 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

Multimodal Forensic Sketch Generator | Python | Repository
- Trained a **Stable Diffusion** model with **LoRA** on 1.5M **FaceCaption** pairs to generate forensic sketches from text
- Enhanced input prompts by **Llama3** and evaluated outputs with FID and CLIP, achieving 62% and 5% improvements over baseline, respectively

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