

Abhijit Hanumeswara Kulkarni

(213) 275-7030 | hanumesw@usc.edu | abhijithanumeswarakulkarni.github.io | abhijit-h-kulkarni | Los Angeles, CA, USA

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: Java, JavaScript/TypeScript (ES6), HTML, CSS, React, Angular, Vue.js, Spring Boot, NestJS, Node.js

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

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

DevOps & Cloud: Docker, Jenkins, AWS, Firebase

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 built with **Spring Boot**, **React**, and **Highcharts**, contributing to a 70% increase in revenue through data-driven insights for the investment representatives
- Architected **Blesk**, a modular wrapper library utilizing **window.postMessage** for secure inter-widget communication, shortening integration time by 30%, and driving adoption across multiple teams within the department
- Spearheaded reusable UI component development created via **Stencil JS** and **Tailwind CSS**, accelerating feature delivery 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 cutting production defects by 50%
- Led performance profiling with **DevTools**, **Grafana**, and **Prometheus** while mentoring 3 engineers and running **Agile** sprints to improve speed and output, 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
- Introduced **OIDC** authentication with **JWT** tokens in **Spring Boot**, replacing legacy cookie-based SSO and decreasing login latency by 30% through stateless session management
- 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 used by clients like CultFit, wiring up **OpenID Connect (OIDC)** with **JWT**-based auth flows and session handling, and built frontend logic using **Vanilla JavaScript** and **Node.js**

Technical Projects

Personal Portfolio | React, Typescript, HTML5, Tailwind CSS, Github Pages | approx. 20 hours

- Created an interactive portfolio website in **React** and **TypeScript** using a component-based architecture, deployed via **GitHub Pages** for seamless updates and feature expansion | [Live Demo](#)

Multimodal Forensic Sketch Generator | Python | approx. 35 hours

- Trained a **Stable Diffusion** model with **LoRA** on 1.5M **FaceCaption** records to generate forensic sketches from text, using **Llama3** to enhance input prompts, and evaluated performance with **FID** and **CLIP** scores, achieving a 62% improvement in FID and a 5% gain in CLIP over the baseline