

# Abhijit Hanumeswara Kulkarni

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## Education

University of Southern California (Master of Science in Computer Science)

Aug 2024 - Present

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

**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

- Crafted 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
- Managed environment variables and email templates with AWS Session Manager and AWS Console, streamlining deployment workflows and simplifying dynamic content updates

### Morgan Stanley

Jun 2021 - Jul 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 styled via Stencil JS and Tailwind CSS, accelerating feature delivery by 90%
- Developed interactive features such as Save View, Theme Switcher, and Preferences using React, MongoDB, and Spring Boot, supporting persistent personalized layouts across sessions and boosting user efficiency by 50%
- 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
- Mitigated unnecessary re-renders by transitioning from React Context API to Redux, elevating UI responsiveness by 70%
- 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%
- Mentored a team of 3 junior engineers in performance profiling leveraging Chrome DevTools, Grafana, and Prometheus, driving a 45% improvement in widget render times and API responsiveness
- Directed a cross-functional team of 10 engineers, collaborated with product managers in Agile ceremonies, resulting in a 200% increase in team velocity through iterative delivery and continuous feedback loops
- 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%
- Documented legacy systems and new service workflows, establishing a sustainable knowledge base for ongoing and future teams

### Morgan Stanley

Jul 2020 - Jun 2021

Software Engineer

Bangalore, KA, India

- Championed micro-service and micro-frontend adoption via Spring Boot and Webpack Module Federation, unlocking independent deployments, mitigating single points of failure, and fortifying system resilience
- Utilized Tailwind CSS and Shadow DOM to deliver fast, modular, visually consistent UI components, reducing style conflicts
- Introduced OpenID Connect (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
- Authored Swagger-documented REST APIs for layout settings (tab/tile), enhancing backend support for customizable UI widgets

## 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](#)