

# Sumit Rodrigues

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## EDUCATION

### California State University, Fullerton

Master of Science, Computer Science (GPA 3.8/4.0)

Fullerton, CA

August 2023 - Present

**Relevant Courses:** Advanced Algorithms, Advanced Blockchain, Cloud Computing, Advanced Database Systems

### University of Mumbai, India

Bachelor of Engineering, Computer Science (GPA 3.25/4.0)

Mumbai, IN

August 2017 - May 2021

**Relevant Courses:** Operating Systems, Artificial Intelligence, Data structures, Object-oriented programming

## PROFESSIONAL EXPERIENCE

### Web Developer Student Assistant

California State University - College of Communication

August 2023 – Present

Fullerton, CA

- Created **full-stack web applications** using **Java** and **Spring Boot**, enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Developed dynamic, responsive single page applications using **React** and **Node.js**, enhancing **UX** across desktop and mobile devices for College of Communications
- Converted **Figma designs** into reusable, interactive **React** components for TUSK Magazine, improving **UI** consistency and development speed by **25%**

### Software Engineer

BNP Paribas (Bank of the West & BMO)

September 2021 – July 2023

Mumbai, IN

- Led end-to-end development for fintech projects, including KYC Scoring and KYC Self-Service Tool, using **Java** and **Spring Boot**, delivering projects **two weeks ahead of schedule**
- Refactored **monolithic Java** applications into **modular microservices** using **Spring Boot & Kafka**, improving maintainability and reducing deployment downtime by **60%**
- Designed a dashboard in **React.js** and **TypeScript** used to track service requests, hosted on **AWS EC2**; implemented **state container** using **Redux** to centralize application state resulting in **10%** faster loading time
- Developed containerized **microservices** using **Spring Boot** and **Node.js**, deployed on **Kubernetes**, improving API scalability and reducing downtime
- Built micro-frontend-based internal **React** applications, utilizing **Redux Toolkit** with **RTK Query** for state management, reducing frontend latency **from 1.2s to 800ms**

### Software Engineer Intern

TechHighway Systems Pvt. Ltd.

May 2020 – July 2020

Pune, IN

- Built a **high-performance e-commerce platform** using **React.js**, and **Typescript**, deployed on **AWS EC2**, leading to a **20% increase in conversion rates** by optimizing UI responsiveness and backend efficiency
- Implemented database persistence layers using **Hibernate** for **Java** applications and **TypeORM** for **Node.js** microservices
- Configured and optimized **Apache Tomcat servers** to deploy **Java-based microservices**, improving **API response time by 43%** for high-traffic requests

## PROJECTS

### Inventory Prediction System | Python, Machine Learning, SQL, Vue.js, Nest.js, AWS

May 2024 – July 2024

- Developed an AI-powered inventory prediction dashboard with **Vue.js** for real-time demand forecasting, reducing fleet costs by 35% and stockouts by 20%
- Integrated secure APIs with **Nest.js** and **MySQL**, ensuring data consistency and real-time updates

### Evergreen Bank | NextJS, TypeScript, React, Tailwind CSS, Chart.js, NPM, Vercel

May 2024 – July 2024

- Built a **financial dashboard** with real-time bank data using **Plaid** and **Chart.js** for visualizations
- Applied **React Hook Form + Zod** for robust form handling and data validation, ensuring high data integrity

### Airline Performance and Flight Delay Analysis | Java, Python, Kubernetes, Spark, Cassandra

Jan 2024 – May 2024

- Designed and deployed a **scalable data pipeline** using **Apache Spark** for distributed processing and **Cassandra** for storage. Orchestrated with **Kubernetes**, **Minikube**, and **Docker**, the solution enabled the efficient analysis of large **.Parquet** datasets for flight delay insights, reducing processing time by **50%**

## SKILLS

**Languages and Frameworks:** JavaScript, TypeScript, React.js, Node.js, Nest.js, React Native, Redux, Tailwind CSS, Java, Python, C++, MySQL.

**Cloud Technologies:** Azure, Google Cloud, AWS (Sagemaker, EC2, Lambda, S3).

**Software and Tools:** JIRA, Vite, Webpack, Storybook, Postman, GitHub, Bitbucket, Google Analytics, MongoDB.

**Certifications:** [Oracle Cloud Infrastructure Generative AI Professional](#)