

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

WORK EXPERIENCE

Software Engineer Student Assistant

California State University - College of Communication

August 2023 – Present

California, USA

- Created **full-stack web applications** using **Java, React.js, and Spring Boot**, enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Integrated **Google Cloud services (AlloyDB, GKE)** into internal student portal, improving database query execution time by **36%** for high-traffic academic resources
- Migrated virtual desktops from on-prem systems to **AWS AppStream 2.0**, leveraging **serverless architecture**, reducing **downtime by 65%** while enhancing remote accessibility

Software Engineer

BNP Paribas (Bank of the West & BMO)

September 2021 – July 2023

Mumbai, India

- Led backend development for full-stack applications, including KYC Scoring and Self-Service Tools, using **Java, Spring Boot, and PostgreSQL**, delivering projects **2 weeks ahead of schedule**
- Refactored **monolithic Java** applications into **modular microservices** using **Spring Boot & Kafka**, improving maintainability and reducing deployment downtime by **60%**
- Developed real-time log streaming dashboards for fraud detection in the KYC application using **WebSockets, Server-Side Rendering, and polling**, enhancing system observability and anomaly detection
- Designed and deployed scalable **RESTful APIs** on **AWS Fargate and EC2**, improving request handling efficiency
- Collaborated with mobile teams to adapt React components into **React Native** components, ensuring consistent functionality and UI across platforms

Software Engineer Intern

TechHighway Systems Pvt. Ltd.

May 2020 – July 2020

Pune, India

- Built a payment reconciliation system for a full-stack e-commerce platform, integrating **React.js, Java and PostgreSQL** to track, audit, and resolve discrepancies in settlements
- Developed and deployed **backend REST APIs** using **Java and Spring Boot**, integrating with **SQL databases** to support **real-time financial analytics**
- Designed real-time fraud detection mechanisms using **Kafka and Redis**, reducing fraudulent transactions by **35%** through advanced anomaly detection for a credit card client

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 SaaS platform** 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

Real Estate Marketplace App | React Native, TypeScript, Vercel, Appwrite

Jan 2024 – May 2024

- Developed a **full-stack real estate application** using **React Native, TypeScript, Expo SDK 52, and Appwrite**, featuring **Google authentication, dynamic property listings, and user profiles** for a seamless user experience

SKILLS

Languages and Frameworks: Python, Java, Spring Boot, React, JavaScript, TypeScript.

DevOps and CI/CD Tools: Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, GitLab CI/CD.

Cloud Technologies: AWS (EC2, Lambda, S3, RDS, IAM), Google Cloud, Azure, Kubernetes, Terraform, Ansible.

Databases & Backend: SQL (PostgreSQL, MySQL), MongoDB, Redis, RESTful APIs, GraphQL, WebSockets.

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