

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

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

Software Developer Student Assistant

August 2023 – Present

California State University - College of Communication

Fullerton, CA

- Developed and deployed **microservices-based APIs using Java, Spring Boot, and Hibernate**, reducing latency by 25% and ensuring seamless integration with university systems
- Implemented **RESTful APIs and GraphQL services** to integrate **Postgres and AWS Lambda**, improving data retrieval efficiency and reducing API response time
- Migrated **virtual desktops from on-prem systems to AWS AppStream 2.0**, utilizing **serverless architecture**, leading to **65% less downtime** and enhanced remote accessibility

Software Engineer

September 2021 – July 2023

BNP Paribas (Bank of the West & BMO)

Mumbai, IN

- Led full-stack development for **fintech projects**, including **KYC Scoring** and **KYC Self-Service Tool**, using **Java, Spring Boot, and Hibernate**, delivering projects **two weeks ahead of schedule**
- Developed and integrated a **real-time transaction tracking dashboard** using **React.js, Redux, WebSockets, and Kafka**, improving operational transparency and reducing incident resolution time by **50%**
- Engineered **backend codebase using Spring Boot microservices**, to efficiently handle over **1M user requests**. Implemented **caching strategies** and **connection pooling**, reducing average response time by **20%**
- Automated deployment pipelines** with **Jenkins, Docker, and Kubernetes**, cutting deployment time from **4 hours to 20 minutes**, ensuring zero downtime during releases
- Transitioned **legacy RESTful APIs to GraphQL**, reducing redundant data calls by **85%** and improving backend data retrieval efficiency for user accounts and transactions
- Designed and implemented **system monitoring dashboards** using **Splunk and Grafana**, proactively identifying API performance bottlenecks and **reducing system downtime**

Software Engineer Intern

May 2020 – July 2020

TechHighway Systems Pvt. Ltd.

Pune, IN

- Built a **high-performance e-commerce platform** using **Java, Spring Boot, and React.js**, deployed on **AWS EC2**, leading to a **20% increase in conversion rates** by optimizing UI responsiveness and backend efficiency
- Developed an interactive **data visualization dashboard** for a UK-based **e-commerce store**, utilizing **React and D3.js**, enhancing the client's ability to match candidates with job opportunities efficiently
- 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, VueJS, Nest.js, AWS

May 2024 – July 2024

- Engineered an **AI-powered Inventory Prediction System** using **XGBoost, Pandas, and Scikit-learn**, integrating a secure **MySQL** database, **NestJS** back-end APIs, and a **Vue.js** front-end, resulting in a **35% reduction in fleet costs**, **20% fewer stockouts**, and improved inventory management across retail stores

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

May 2024 – July 2024

- Created Evergreen, a **full stack financial SaaS platform** with **NextJS, TypeScript**, incorporating **Plaid** for real-time bank linking and **Dwolla** for secure transfers, featuring real-time updates, and detailed transaction history
- Built robust data visualizations with **Chart.js** and streamlined form handling with **React Hook Form** and **Zod**, ensuring efficient data processing and enhanced user experience

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: Java, Python, C++, Spring Boot, JavaScript, TypeScript, React.js, Node.js, Nest.js, MongoDB, React Native, Redux, Tailwind CSS, SQL, MySQL, PostgreSQL, Selenium(Maven).

DevOps and CI/CD Tools: Hadoop, Apache Spark, Cassandra, Kubernetes, Docker, Git, Linux, Jenkins.

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

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

Certifications: Oracle Cloud Infrastructure Generative AI Professional