

# Sumit Rodrigues

+1562-549-9508 | Los Angeles, CA | [sumitrod11@gmail.com](mailto:sumitrod11@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## 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

### Software Developer Student Assistant

August 2023 – Present

California State University - College of Communication

Fullerton, CA

- Created **full-stack applications** using **Java** and **JavaScript** hosted on **AWS EC2** enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Engineered **secure, high-performance APIs** using **Spring Boot**, **Node.js**, and **DynamoDB**, ensuring seamless integration of distributed applications
- 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**
- Designed a dashboard in **React.js** and **Next.js** used to track service requests, hosted on **AWS EC2**; implemented **state container** using **Redux** to centralize application state resulting in **10%** faster loading time
- Automated CI/CD pipelines** with **Jenkins**, **Docker**, and **Kubernetes**, cutting deployment time from **4 hours** to **20 minutes**, ensuring zero downtime during releases
- Reduced time for generating reports for FED by **7%** by charting transactional data & liquidity assets into a **report-generating tool (Triton)** developed using **PostgreSQL**
- Designed and optimized scalable **ETL pipelines** using **Java**, **MySQL**, and **DynamoDB**, reducing data processing latency for high-volume financial transactions
- Redesigned API architecture from **REST** to **GraphQL** and **DynamoDB**, reducing redundant calls by **85%**, improving data retrieval speed and scalability

### Frontend Engineer Intern

May 2020 – July 2020

TechHighway Systems Pvt. Ltd.

Pune, IN

- Built a **high-performance e-commerce platform** using **Java**, 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
- Implemented **backend microservices** with **Node.js** and **Next.js**, handling **high-volume transaction processing** and integrating **secure authentication mechanisms**

## 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

### 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%**

### ArticleBuzz – Predictor | React.js, AWS, XGBoost, NGINX, Python

August 2023 – December 2023

- Implemented a prediction system using **machine learning algorithms** in a collaborative **Agile** environment, demonstrating innovative use of technology to forecast an article's reach based on social media shares, achieving a **96.78% success rate** using the **XGBoost algorithm**
- Cloud computing Technologies** used were **AWS EC2 Instance**, **SageMaker**, **Lambda Function**, **S3 Bucket**

## SKILLS

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

**DevOps and CI/CD Tools:** Hadoop, Apache Spark, Cassandra, Kubernetes, Docker, Git, 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](#)