

Sumit Rodrigues

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EDUCATION

California State University, Fullerton

Master of Science, Computer Science (GPA 3.7/4.0)

Fullerton, CA

August 2023 - May 2025

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, India

August 2017 - May 2021

Relevant Courses: Operating Systems, Computer Architecture, Artificial Intelligence, Data Structures and Algorithms

WORK EXPERIENCE

Software Developer

August 2023 – Present

California State University - College of Communication

Fullerton, CA

- Created **full-stack web applications** using **React.js** and **JavaScript**, enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Implemented a **Jenkins pipelines** and **notification tool** for daily titan campus newspaper, enhancing data workflow and backup throughput by **50%**
- Migrated virtual desktops from **Virtual Computer Labs** to **AWS AppStream 2.0** using **image builder**, resulting in better performance and **65%** less downtime

Software Developer

September 2021 – July 2023

BNP Paribas (Bank of the West & BMO)

Mumbai, IN

- Led **full-stack development** for fintech projects like KYC Scoring and KYC Self Service Tool using **Java** and **Spring Boot**, delivering projects **two weeks** ahead of schedule
- Automated **CI/CD pipelines** using **Jenkins** and integrated **Terraform** for infrastructure-as-code deployments on **AWS**, **reducing deployment times by 60%** and improving system reliability across multi-environment workflows
- Containerized **legacy systems** by migrating to **Docker-based microservices**, improving system resilience and load handling by **50%**
- Conducted extensive **automated testing** using **Selenium** and **Postman**, achieving a **50% improvement in defect detection** during development cycles
- Utilized Amazon S3** to manage over **10TB** of transactional logs, ensuring **secure storage**, regulatory **compliance**, and **high availability** for audit and reporting purposes across the North American region
- Upgraded the codebase from **REST API** to **GraphQL API**, reducing **redundant HTTP calls by 85%** and enabling precise, efficient data retrieval for real-time application dashboards

Front-End Development Intern

May 2020 – July 2020

TechHighway Systems Pvt. Ltd.

Pune, IN

- Developed responsive **e-commerce** web applications using **React.js** and **Next.js**, hosted on **AWS EC2**, enhancing the shopping experience and increasing customer satisfaction by **75%**
- Managed **back-end** in **Java** for data-intensive **e-commerce** systems, improving **performance** and **scalability** during peak traffic periods, decreasing **server processing times by 25%**
- Improved **state management** with **Redux** and advanced **JavaScript ES6+** features like **async/await**, delivering a smoother and more responsive shopping experience with faster load times

PROJECTS

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

December 2024 – May 2025

- 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**, enabling efficient analysis of large **.Parquet** datasets for flight delay insights, boosting data processing speed by **50%**.

SKILLS

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

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

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

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

Certifications: Oracle Cloud Infrastructure Generative AI Professional