

Sumit Michael Rodrigues

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EXPERIENCE

Software Developer Student Assistant

08/2023 – Present

California State University - College of Communication

Fullerton, CA

- Created responsive web applications using **React.js**, **HTML5**, **CSS3** and **OMNI Content Management System** to enhance **user experience**, resulting in a **30%** increase in **user engagement**
- Migrated virtual desktops from **Virtual Computer Labs** to **AWS AppStream 2.0** using **image builder**, enhancing the efficiency and scalability of the College of Communication, resulting in **20%** better performance and **35%** less downtime
- Implemented **Jenkins pipelines** for and notification tool for daily titan campus newspaper, enhancing data workflow and backup throughput by **50%**

Software Developer

09/2021 – 07/2023

BNP Paribas

Mumbai, India

- Led a team of interns in **Fintech Software Development** projects like KYC Scoring and KYC Self Service Tool using **Java** and **MongoDB**, and **Agile** methodologies delivering projects two weeks ahead of schedule
- Architected scalable front-end applications with **jQuery**, **JavaScript**, and **GraphQL**, deployed on **AWS S3** with **CloudFront**, boosting HR workflows by **40%** and cutting task completion from **2 months to 2 weeks**
- Built **RESTful APIs** using **Java** and **Spring Boot**, increasing data retrieval speed by **30%** for **1M+** users and integrating **Apache Kafka** and **Elasticsearch** for real-time streaming and advanced search
- Designed scalable data storage patterns with **RDBMS(MSSQL)** and **NoSQL database**, improving data management and accessibility for internal banking applications by **25%**
- Modernized **legacy systems** by migrating to **Docker-based microservices**, improving system resilience and load handling by **50%**, while reducing deployment time from **4 hours to 10 minutes** using **Terraform** automation
- Streamlined **CI/CD workflows** with **Jenkins** and **Kubernetes**, achieving a **30%** increase in delivery efficiency and integrating **SonarQube** for continuous quality monitoring and security assurance
- Automated testing with **Java**, **Selenium**, and **JUnit**, cutting manual testing by **30%**, while adding **Cypress** and **Apache JMeter** to reduce testing time by **50%** and improve defect detection by **40%**

Front-end Development Intern

05/2020 – 07/2020

TechHighway Systems Pvt. Ltd.

Pune, India

- Developed **responsive front-end user interface** using **React.js** and **TypeScript** to create **responsive web applications**, increasing **customer satisfaction** by **35%**
- Optimized **state management** using **Redux** and **ES6+** features like **DOM**, **async/await** and **destructuring** in web applications, boosting website performance by **30%**, reducing code complexity by **25%**, and delivering a more responsive, seamless user experience
- Managed **back-end services** using **NodeJS** and **MongoDB**, ensuring high **performance** and **scalability**, decreasing **server processing times** by **25%**

PROJECTS

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

12/2024 – 05/2025

- 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 **30%** reduction in fleet costs, **20%** fewer stockouts, and improved inventory management across retail stores

Evergreen Bank | Next.js, TypeScript, React, Chart.js, NPM, Vercel

05/2024 – 06/2024

- Built Evergreen, a **full-stack financial SaaS** platform with **Next.js**, **Plaid**, and **Dwolla**, reducing transaction errors by **40%**, improving data efficiency by **25%**, and boosting user satisfaction by **15%**

ArticleBuzz – Predictor | React.js, AWS, XGBoost, KNN, Random Forest, GradientBoost, Python

08/2023 – 12/2023

- 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: React.js, Next.js, Node.js, Express.js, MongoDB, Java, Python, C++, JavaScript, jQuery, TypeScript, React Native, SQL, Selenium(Maven), Redux.

DevOps and CI/CD Tools: Apache Spark, Cassandra, Kubernetes, Docker, Postman, Git, GitHub, Bitbucket.

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

Software and Tools: Confluence, JIRA, SCRUM, Agile, SDLC, Content Management Systems, Eclipse IDE, IntelliJ, WebStorm, MacOS, Webpack.

Certifications: Oracle Cloud Infrastructure Generative AI Professional

EDUCATION

California State University, Fullerton

Fullerton, CA

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

05/2025

University of Mumbai

Mumbai, India

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

05/2021