

Sumit Michael Rodrigues

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EXPERIENCE

Software Developer Student Assistant

08/2023 – Present

California State University - College of Communication

Fullerton, CA

- Created **full-stack web applications** using **React.js**, **Node.js**, **HTML5**, and **CSS3** to enhance **user experience**, increasing **daily active users** from around **1,500** to over **2,000** within **three months** of deployment
- Transformed **UI/UX design concepts** into **functional code** for the **TUSK magazine website** of our department, improving page load speed by **6 seconds** through efficient **React.js** implementation and **backend API integration**
- 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 better performance and **65%** less downtime

Software Developer

09/2021 – 07/2023

BNP Paribas

Mumbai, India

- Led **full-stack development** for fintech projects like KYC Scoring and KYC Self Service Tool using **Java**, **MongoDB**, and **React.js**, delivering projects **two weeks** ahead of schedule
- Architected **cloud-based front-end** applications with **ReactJS** and **Java**, 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
- Containerized **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
- Optimized **CI/CD workflows** with **Jenkins** and **Kubernetes**, reducing deployment time by **2 hours per cycle** and ensuring **150+** reliable releases annually
- Created a **Python Automation Script** to optimize the **Enterprise Data Warehouse (EDW)** validation procedures, reducing manual effort and increasing operational efficiency by **50%**

Front End Development Intern

05/2020 – 07/2020

TechHighway Systems Pvt. Ltd.

Pune, India

- Developed responsive front-end **e-commerce** interfaces using **React.js**, **TypeScript**, and **Tailwind CSS**, hosted on **cloud platforms**, enhancing the shopping experience and increasing customer satisfaction by **75%**
- Managed **back-end services** for **e-commerce** systems using **Node.js** and **MongoDB**, ensuring high **performance** and **scalability** during peak traffic periods, decreasing **server processing times** by **25%**
- Improved **state management** with **Redux** and advanced JavaScript 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

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 | NextJS, TypeScript, React, Tailwind CSS, 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%**

David Chu's China Bistro | HTML5, CSS3, Javascript, PHP, AJAX, jQuery

05/2020 – 07/2020

- Developed a responsive restaurant website using **PHP**, **JavaScript**, **jQuery**, and **AJAX**, featuring dynamic menus and location mapping, improving user engagement by **30%** and reducing navigation load times by **40%**

SKILLS

Languages and Frameworks: React.js, Next.js, Node.js, Express.js, MongoDB, Java, Python, C++, R, 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

Relevant Courses: Advanced Algorithms, Artificial Intelligence, Cloud Computing, Advanced Database Systems

University of Mumbai

Mumbai, India

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

05/2021

Relevant Courses: Operating Systems, Computer Architecture, Multi-Threading, Data Structures and Algorithms