

Sumit Rodrigues

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EDUCATION

California State University, Fullerton

Fullerton, CA

Master of Science, Computer Science (GPA 3.8/4.0)

August 2023 - Present

Relevant Courses: Advanced Algorithms, Advanced Blockchain, Cloud Computing, Advanced Database Systems

University of Mumbai

Mumbai, IN

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

August 2017 - May 2021

Relevant Courses: Operating Systems, Artificial Intelligence, Data structures, Object-oriented programming

WORK EXPERIENCE

Software Developer Student Assistant

August 2023 – Present

California State University - College of Communication

Fullerton, CA

- Developed and deployed **AWS cloud-hosted full-stack applications** using **JavaScript, TypeScript, and React**, optimizing **CSUF's digital resource management** for improved **scalability and response times**
- Engineered **interactive UI components** for the **TUSK magazine website**, reducing **page load speed by 6 seconds** with **React.js** optimizations like **memoization and lazy loading**
- Migrated virtual desktops from **on-prem systems to AWS AppStream 2.0**, leveraging **serverless architecture**, reducing **downtime by 65%** while enhancing remote accessibility

Software Engineer

September 2021 – July 2023

BNP Paribas (Bank of the West & BMO)

Mumbai, IN

- Developed and optimized **React.js dashboards** for tracking service requests, integrating **Redux for state management**, reducing **UI rendering lag by 15%**
- Built and deployed **microservices-based APIs** using **Java, Spring Boot, and Hibernate**, improving **API response time by 30%** through efficient database indexing and caching
- Designed **real-time log visualization dashboards** using **WebSockets, server-side rendering (SSR), and polling techniques**, enhancing operational **transaction tracking for 50K+ users**
- Refactored **existing RESTful APIs** to **GraphQL**, reducing **redundant data calls by 85%**, leading to improved **backend efficiency** for user authentication and transactions
- Implemented **testing automation** for front-end services, leveraging **Jest, Cypress, and Mocha**, resulting in **40% reduction in UI-related defects** before production deployment
- Enhanced **mobile responsiveness** using **React Native and Progressive Web App (PWA) methodologies**, ensuring a seamless user experience across devices

Software Engineer Intern

May 2020 – July 2020

TechHighway Systems Pvt. Ltd.

Pune, IN

- Built a **high-performance e-commerce platform** using **React.js and Java**, deployed on **AWS EC2**, increasing **conversion rates by 20%** through optimized UI responsiveness
- Integrated **TypeScript with React**, reducing runtime errors and improving **code maintainability** across large-scale projects
- Developed interactive dashboards with **Angular, D3.js, and Entity Framework**, enabling real-time analytics for recruitment processes

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, Vercel**, 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

Real Estate Marketplace App | React Native, TypeScript, Vercel, Appwrite

Jan 2024 – May 2024

- Developed a **full-stack real estate application** using **React Native, TypeScript, Expo SDK 52, and Appwrite**, featuring **Google authentication, dynamic property listings, and user profiles** for a seamless user experience

SKILLS

Languages and Frameworks: Java, Python, C++, JavaScript, TypeScript, Spring Boot, React.js, Node.js, Nest.js, MongoDB, React Native, Redux, Tailwind CSS, SQL, MySQL, 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, Confluence, Vite, Webpack, Storybook, Postman, GitHub, Bitbucket, Google Analytics.

Certifications: Oracle Cloud Infrastructure Generative AI Professional