

Sumit Rodrigues

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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

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

WORK EXPERIENCE

Software Developer Student Assistant

August 2023 – Present

California State University - College of Communication

Fullerton, CA

- Developed and deployed **RESTful and GraphQL APIs** using **Python (FastAPI)** and **PostgreSQL**, reducing API response time by **40%** for student services and internal research platforms
- 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

- Led the development of **financial compliance automation tools**, integrating **third-party APIs (Jira, ServiceNow, and Slack)** to streamline regulatory reporting, reducing manual effort by **70%**
- Built and deployed **microservices-based APIs** using **Java, Spring Boot, and Hibernate**, improving **API response time by 30%** through efficient database indexing and caching
- Spearheaded **CI/CD pipelines** using **Jenkins, Helm, and Kubernetes**, reducing deployment times from **4 hours to 20 minutes**, ensuring seamless integration
- Refactored **existing RESTful APIs** to **GraphQL**, reducing redundant **data calls by 85%**, leading to improved **backend efficiency** for user authentication and transactions
- Developed **real-time financial dashboards** using **React.js and WebSockets**, improving transaction monitoring capabilities for **50K+ users**
- Integrated **Grafana dashboards** to monitor **API performance metrics, real-time error rates, and system health**, reducing debugging time by **30%** and improving system observability.

Software Engineer Intern

May 2020 – July 2020

TechHighway Systems Pvt. Ltd.

Pune, IN

- Built a **high-performance e-commerce platform** using **React.js, Python (Flask), and PostgreSQL**, leading to a **20% increase in conversion rates** through optimized API performance
- Designed and deployed **GraphQL APIs** for **dynamic product search and recommendations**, improving query response times by **60%**
- Designed **data visualization dashboards** using **D3.js and React**, improving user analytics and decision-making for a UK-based recruitment agency
- Enhanced **state management with Redux and Context API**, optimizing **client-side caching**, reducing API load by **35%**, and improving **Lighthouse performance scores**

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**, 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