Sumit Michael Rodrigues

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EXPERIENCE

Frontend 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**
- Designed and developed **front-end dashboards** using **Google Analytics, JavaScript and HTML/CSS**, providing real-time insights to faculty and administrators, **improving decision-making by 20%**

Software Developer 09/2021 – 07/2023
BNP Paribas *Mumbai, India*
- Led a team to deliver KYC Scoring and KYC Self Service Tool projects using **Java, MongoDB**, and **Agile methodologies,** delivering **2 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** with **Java and Spring Boot**, increasing data retrieval speed by **63%** for **1M+ users** and enabling real-time search with **Kafka and Elasticsearch**
- Modernized **legacy systems** with **Docker** and migrated to microservices on **AWS ECS**, enhancing resilience and **load handling by 50%**
- Enhanced **CI/CD workflows** with **Jenkins, and Kubernetes,**, reducing **deployment time by 2 hours per cycle** and ensuring consistent code quality across releases
- Analyzed **requirements**, implemented tailored solutions, and provided **post-production support**, resolving **95%** of issues within **24 hours** and ensuring seamless deployments for **50000+** business users

Frontend Development Intern 05/2020 – 07/2020
TechHighway Systems Pvt. Ltd. *Pune, India*
- Developed **responsive front-end user interface** using **React.js, TypeScript, and Tailwind CSS** to create **responsive web applications**, increasing **customer satisfaction** by **75%**
- Optimized **state management** using **Redux and ES6+ features like DOM, async/await and promises** in web applications, boosting website performance by **80%**, and delivering a more responsive, seamless user experience
- Managed **back-end services** using **Java and MongoDB**, ensuring high **performance** and **scalability**, decreasing **server processing time** from **6 minutes to 32 seconds**

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 reduction in fleet costs, **50%** 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%**

Airline Performance and Flight Delay Analysis | *Kubernetes, Spark, Cassandra, Java, Python* 01/2024 – 05/2024
- 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: Python, Java, MongoDB, Node.js, React.js, Next.js, Express.js, 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