

Sumit Michael Rodrigues

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EXPERIENCE

Software Developer Student Assistant

08/2023 – Present

California State University - College of Communication

- Created responsive web applications using **Javascript, HTML, CSS** and **OMNI Content Management System** to enhance **user experience**, resulting in a 30% increase in **user engagement**
- Leveraged **Linux commands** to update, troubleshoot, and explore the speech clinic server, effectively enhancing system performance and ensuring **consistent uptime** for critical services
- Implemented **Jenkins pipelines** for and notification tool for daily titan campus newspaper, enhancing data workflow and backup throughput by **50%**

Associate Software Engineer

09/2021 – 07/2023

BNP Paribas

- Streamlined **test automation frameworks** using **Java, Selenium, and JUnit**, reducing manual testing by 30% and improving software reliability across compliance applications
- Optimized **Git and GitHub** for **CI/CD and version control**, improving coding practices and continuous integration workflows for **global e-commerce and financial solutions**
- Enhanced real-time data monitoring with new **Angular** components and backend optimizations using **Java and MySQL**, improving system performance by 25%
- Refined complex queries in **MySQL and Oracle databases** to retrieve key data, enhancing query efficiency by 25% and generating actionable insights for corporate finance apps
- Conducted **API validation** utilizing the Ready API tool, encompassing **SOAP and RESTful API** across diverse banking applications maintaining 95% validation accuracy

FrontEnd Development Intern

05/2020 – 07/2020

TechHighway Systems Pvt. Ltd.

- Developed **responsive front-end user interface** using **React** to create **responsive web applications**, increasing **customer satisfaction** by **35%**
- Collaborated with cross-functional teams using **Figma** to ensure seamless **integration of UX/UI designs**, enhancing the overall **user experience** by **30%**.
- Managed **back-end services** using **Node.js**, ensuring high **performance and scalability**, decreasing **server processing times** by **25%**

PROJECTS

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

12/2024 – 05/2025

- Engineered an **AI-powered** Inventory Prediction System using **XGBoost, Pandas, and Scikit-learn**, resulting in a **30% reduction in fleet costs and 20% fewer stockouts** across retail stores for effective Inventory Management
- The system features a robust data pipeline, secure **MySQL database**, and intuitive **Vue.js-based front-end interface** with **NestJS back-end APIs**

Evergreen Bank | *Next.js, TypeScript, React, Chart.js*

05/2024 – 06/2024

- Built Evergreen, a **full stack financial SaaS platform** with **Next.js, TypeScript**, incorporating **Plaid** for real-time bank linking and **Dwolla** for secure transfers, featuring real-time updates, resulting in a 40% reduction in transaction errors
- Designed robust data visualizations with **Chart.js** and streamlined form handling with **React Hook Form** and **Zod**, improving the platform's data handling efficiency by 25% and user satisfaction by 15%

Airline Performance and Flight Delay Analysis | *Kubernetes, Spark, Cassandra, Java, Python*

01/2024 – 05/2024

- Utilized **Apache Hive** for efficient **querying and processing** of large datasets, **optimizing data analytics**
- Set up a robust **data processing pipeline** using **Kubernetes** for **deployment orchestration**, **Apache Spark** for **processing Parquet datasets**, **Cassandra** for **scalable data storage**, **Python** for **visualization**, and **Java** for backend increasing **data processing speed** by **50%**

SKILLS

Languages and Frameworks: Java, Python, C++, JavaScript, Typescript, React.js, Next.js, Node.js, SQL, Selenium(Maven), Swift.

Big Data Technologies: Hadoop, Apache Spark, Cassandra, Kubernetes.

Cloud Technologies: GCP, Amazon Web Services (Sagemaker, EC2, Lambda, S3), Docker.

Software and Tools: Eclipse IDE, IntelliJ, Postman, Android Studio, XCode, Jupyter Notebook, Confluence, JIRA, Agile, SDLC, Content Management Systems, MacOS.

Certifications: Oracle Cloud Infrastructure Generative AI Professional

EDUCATION

California State University, Fullerton

Fullerton, CA

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

08/2023 – Present

- Relevant Courses:** Advanced Algorithms, Advanced Blockchain Technologies, Artificial Intelligence, Cloud Computing, Advanced Database Systems, Modern Software Management