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, India 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

PROFESSIONAL EXPERIENCE

Software Developer Student Assistant August 2023 – Present
California State University - College of Communication *Fullerton, CA*
- Created **full-stack applications** using **HTML5, CSS3** and **JavaScript** hosted on **AWS EC2** enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- 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 implementation using **React.js**
- Migrated **virtual desktops** from **on-prem systems to AWS AppStream 2.0**, utilizing **serverless architecture**, leading to **65% less downtime** and enhanced remote accessibility

Software Engineer September 2021 – July 2023
BNP Paribas (Bank of the West & BMO) *Mumbai, IN*
- Mentored a team of 4 in building a scalable distributed **full-stack** banking applications using **JavaScript, Typescript, and RESTful APIs** for an export customer, achieving a **23%** improvement in cost estimation performance
- Designed a dashboard in **React.js and JavaScript** used to track service requests, hosted on **AWS EC2**; implemented **state container using Redux** to centralize application state resulting in **10%** faster loading time
- **Automated CI/CD pipelines** with **Jenkins, Docker, and Kubernetes**, cutting deployment time from **4 hours to 20 minutes**, ensuring zero downtime during releases
- Built a scalable **Node.js backend** for **financial data processing**, implementing **GraphQL APIs**, reducing redundant data calls by **85%**
- Collaborated in an Agile development team using **Scrum methodologies, GitHub for version control, and JIRA for sprint tracking**, ensuring **95%** sprint completion rate and enhanced cross-team coordination

Software Engineer Intern May 2020 – July 2020
TechHighway Systems Pvt. Ltd. *Pune, IN*
- Built a **high-performance e-commerce platform** using **React.js, and Typescript**, deployed on **AWS EC2**, leading to a **20% increase in conversion rates** by optimizing UI responsiveness and backend efficiency
- Developed an interactive **data visualization dashboard** for a UK-based **e-commerce store**, utilizing **React and D3.js**, enhancing the client's ability to match candidates with job opportunities efficiently
- Implemented **backend services** using **PHP and Node.js**, integrating **GraphQL APIs** for a scalable content management system

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
- Implemented **OAuth, JWT authentication, and role-based access control (RBAC)** for securing APIs and ensuring security

Airline Performance and Flight Delay Analysis | *Java, Python, Kubernetes, Spark, Cassandra* Jan 2024 – May 2024
- Designed and deployed a **scalable data pipeline** using **Apache Spark** for distributed processing and **Cassandra** for storage. Orchestrated with **Kubernetes, Minikube, and Docker**, the solution enabled the efficient analysis of large **.Parquet** datasets for flight delay insights, reducing processing time by **50%**

SKILLS

Languages and Frameworks: JavaScript, TypeScript, React.js, Node.js, Nest.js, MongoDB, React Native, Redux, Tailwind CSS, Java, Python, C++, Spring Boot, SQL, MySQL, PostgreSQL, Selenium(Maven).
DevOps and CI/CD Tools: Hadoop, Apache Spark, Cassandra, Kubernetes, Docker, Git, Jenkins.
Cloud Technologies: Azure, Google Cloud, AWS (Sagemaker, EC2, Lambda, S3).
Software and Tools: JIRA, Vite, Webpack, PHPStorm, Storybook, Postman, GitHub, Bitbucket, Google Analytics.
Certifications: Oracle Cloud Infrastructure Generative AI Professional