Sumit Rodrigues

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PROFESSIONAL EXPERIENCE

Web Developer Student Assistant
August 2023 – Present

California State University - College of Communication
Fullerton, California

- Created full-stack web applications using **HTML5, CSS3** and **Javascript**, enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Converted **Figma designs** into reusable, interactive **React** components for TUSK Magazine, improving **UI** consistency and development speed by **25%**
- Integrated **TitanGPT** (ChatGPT-4o) as a **chatbot** leveraging **Python NLP libraries** feature on the Communications website, enabling students and professors to quickly navigate resources, find relevant information instantly
- Utilized **RESTful APIs** with real-time data fetching, caching, and error handling for seamless user interactions for students and faculty

Software Engineer
September 2021 – July 2023

BNP Paribas (Bank of the West & BMO)
Mumbai, India

- Led development for **fintech** applications, including KYC Scoring and Self-Service tools, using **Python, Flask, and MySQL** reducing average page load times for **1M+ users**
- Built a real-time dashboard using **React.js, TypeScript, and D3.js**, enabling financial analysts to visualize large datasets efficiently
- Designed and deployed **FastAPI-based microservices** handling real-time data streams, reducing processing latency by **45%**
- Developed **automated testing pipelines** using **Pytest** and integrated them with CI/CD workflows, reducing pre-deployment bugs by over 70%
- Automated **CI/CD pipelines** with **Jenkins, Docker, and Kubernetes** and **Git** for **Version Control**, cutting deployment time from **4 hours to 20 minutes**, ensuring zero downtime during releases

Software Engineer Intern
May 2020 – July 2020

TechHighway Systems Pvt. Ltd.
Pune, India

- Built a high-performance e-commerce storefront using **React, TypeScript, and Node.js**, hosted on **AWS EC2**, leading to a **20% increase in conversion rates**
- Developed an interactive data visualization dashboard for a UK-based e-commerce store, utilizing **React** and **D3.js** to provide **real-time sales insights**, enabling better inventory management
- Enhanced application performance with **memoization (React.memo, useMemo, useCallback)** and **virtualized rendering**, reducing re-renders and boosting UI efficiency

PROJECTS

Inventory Prediction System | *Python, Machine Learning, SQL, Vue.js, Nest.js, AWS*
May 2024 – July 2024

- Developed an AI-powered inventory prediction dashboard with **Vue.js** for real-time demand forecasting, reducing fleet costs by 35% and stockouts by 20%
- Integrated secure APIs with **Nest.js** and **MySQL**, ensuring data consistency and real-time updates

ArticleBuzz – Predictor | *Python, React.js, AWS, XGBoost, NGINX*
August 2023 – December 2023

- Implemented a prediction system using **machine learning algorithms**, to forecast an article's reach based on social media shares, achieving a **96.78% success rate** using the **XGBoost algorithm**
- Cloud computing Technologies used were **AWS EC2 Instance**, **SageMaker**, **Lambda Function**, **S3 Bucket**

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

SKILLS

Languages and Frameworks: JavaScript, TypeScript, React.js, Node.js, Nest.js, React Native, Redux, TailwindCSS, Java, Python, C++, MySQL.
Cloud Technologies: Azure, Google Cloud, AWS (Sagemaker, EC2, Lambda, S3).
Software and Tools: JIRA, Vite, Webpack, Storybook, Postman, GitHub, Bitbucket, Google Analytics, MongoDB.
Certifications: Oracle Cloud Infrastructure Generative AI Professional