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

WORK EXPERIENCE

Software Engineer Student Assistant   August 2023 – Present
California State University - College of Communication   *California, USA*
- 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
- Engineered **RESTful APIs** and **microservices** using **Flask and Django**, enabling real-time student authentication via CSUF's LDAP and OAuth2.0 integration
- Managed a **digital advertising analytics pipeline** using **Google Ads API, DV360, Carrousel, and SQL**, overseeing real-time data ingestion and performance tracking
- 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, India*
- Led backend development for full-stack applications, including KYC Scoring and Self-Service Tools, using **Java, TypeScript, and MySQL**, delivering projects **2 weeks ahead of schedule**
- Led development of **business process automation tools** with **Python and UiPath**, streamlining KYC validation workflows, reducing manual effort by **50%**
- Implemented **Angular** lazy loading and Ahead-of-Time compilation, decreasing initial page load time from **3.2s to 1.5s**, ensuring faster interactions in banking dashboards
- Designed and deployed scalable **RESTful APIs** on **AWS Fargate and EC2**, improving request handling efficiency
- Refactored **existing RESTful APIs** to **GraphQL**, reducing redundant **data calls by 85%**, leading to improved **backend efficiency** for user authentication and transactions
- Conducted **unit testing** using **JUnit** and **integration testing** with **Postman** to validate API correctness under different load conditions, improving application stability before production deployment

Software Engineer Intern   May 2020 – July 2020
TechHighway Systems Pvt. Ltd.   *Pune, India*
- Built a high-performance e-commerce storefront using **Java and TypeScript**, hosted on **AWS EC2**, increasing **conversion rates by 20%** through **A/B testing-driven** UI enhancements
- Developed and deployed backend **RESTful APIs** using **Java** and **Spring Boot**, integrating with **SQL databases** to support real-time financial analytics
- Improved state management with **Redux and JavaScript ES6 async/await**, optimizing **frontend API calls** and reducing client-side rendering delays

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**, demonstrating innovative use of technology 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**

Gesture Controlled Game-play | *Python, OpenCV, Computer Vision, Object Detection*   December 2020 – May 2021
- Engineered an advanced **Artificial Intelligence-driven object detection system** to manipulate in-game character movements via **user hand gestures**, enhancing interactive gaming experience and user engagement

SKILLS

Languages and Frameworks: Python, Java, Spring Boot, Angular, React, JavaScript, TypeScript.
DevOps and CI/CD Tools: Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, GitLab CI/CD.
Cloud Technologies: AWS (EC2, Lambda, S3, RDS, IAM), Google Cloud, Azure, Kubernetes, Terraform, Ansible.
Databases & Backend: SQL (PostgreSQL, MySQL), MongoDB, Redis, RESTful APIs, GraphQL, WebSockets.
Certifications: Oracle Cloud Infrastructure Generative AI Professional