

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
- Automated system monitoring and logging processes using **Shell Scripting and Python**, improving incident detection and reducing manual intervention
- Leveraged **Linux/Unix commands** for updating, exploring, and troubleshooting the speech clinic server, effectively enhancing system performance and ensuring **99% uptime** for critical services

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 **Python, Flask, 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 real-time KYC onboarding workflows, integrating **Angular Forms, RxJS, and dynamic validation logic**, reducing form errors by **50%**
- Automated CI/CD pipelines using **Jenkins, Docker, and Kubernetes**, reducing deployment time from **4 hours to 20 minutes** improving software reliability

Software Engineer Intern

May 2020 – July 2020

TechHighway Systems Pvt. Ltd.

Pune, India

- Built a high-performance e-commerce platform using **Django, Python, and MySQL**, leading to a **20% increase in conversion rates** through optimized API performance
- Worked on cloud-based monitoring solutions using **AWS Lambda & Python**, improving log processing efficiency and alert generation
- Implemented **Python automation scripts** to process and analyze large-scale datasets for an internal tool, improving operational 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**, 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
- Utilized **Python, OpenCV, Computer Vision, and Machine Learning** to combine **background subtraction, contouring, and object detection** technologies for enhanced performance

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](#)