

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

- Built **Python web services using Flask & FastAPI**, enabling self-service IT automation, reducing manual IT requests by **60%**
- Automated system monitoring and logging processes using **Shell Scripting and Python**, improving incident detection and reducing manual intervention
- Implemented **CI/CD pipelines using GitHub Actions & Jenkins**, automating testing and deployments, reducing manual effort by 50% and improving deployment stability

Software Engineer

September 2021 – July 2023

BNP Paribas (Bank of the West & BMO)

Mumbai, India

- Led development of **business process automation tools** with **Python and UiPath**, streamlining KYC validation workflows, reducing manual effort by **50%**
- Developed isomorphic **single-page applications** using **React.js & TypeScript**, leveraging **server-side rendering** with **Next.js** to improve SEO and first contentful paint by **50%**
- Built event-driven IT monitoring tools using **Python, Datadog API, and AWS CloudWatch**, enabling real-time system observability and reducing downtime by 37%
- Designed scalable **RESTful APIs & microservices**, integrating **Kubernetes & Docker for containerized deployments**, improving service uptime and fault tolerance
- Automated **CI/CD pipelines** with **Jenkins, Docker, and Kubernetes**, 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 payment reconciliation system for an e-commerce platform, integrating **React.js, D3.js, and PostgreSQL** to track, audit, and resolve discrepancies in settlements
- Worked on cloud-based monitoring solutions using **AWS Lambda & Python**, improving log processing efficiency and alert generation
- Implemented **role-based access control (RBAC)** for **payment APIs** using **OAuth 2.0**, ensuring secure API access for merchants, auditors, and financial analysts

PROJECTS

Inventory Prediction System | Python, Machine Learning, SQL, VueJS, 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

Evergreen Bank | NextJS, TypeScript, React, Tailwind CSS, Chart.js, NPM, Vercel

May 2024 – July 2024

- Built a **financial SaaS platform** with real-time bank data using **Plaid** and **Chart.js** for visualizations
- Applied **React Hook Form + Zod** for robust form handling and data validation, ensuring high data integrity

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**

SKILLS

Languages and Frameworks: Python, Java, Bash, Terraform, Ansible, FastAPI, Spring Boot, React, JavaScript, TypeScript.

DevOps and CI/CD Tools: Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, CloudFormation, 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](#)