

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

Fullerton, CA

- Created **full-stack applications** using **Java and Spring Boot**, enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Developed and optimized **microservices-based applications** using **Java, Spring Boot, and SQL**, reducing **system latency by 25%** and improving **response times for mission-critical services**
- 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, IN

- Led backend development for fintech applications, including KYC Scoring and Self-Service Tools, using **Java, Spring Boot, and PostgreSQL**, delivering projects **2 weeks ahead of schedule**
- Built event-driven architectures with **Apache Kafka and RabbitMQ**, enabling real-time message streaming and increasing system throughput by **45%**
- Implemented **Redis-based caching** for high-traffic applications, reducing **API response times by 50%** and improving system responsiveness
- Engineered **parallel processing pipelines** with **Java Executor Service**, improving request handling throughput by **46%** and reducing processing time for large datasets
- Reduced time for generating reports for FED by **7%** by charting transactional data & liquidity assets into a **report-generating tool (Triton)** developed using **PostgreSQL**
- 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, IN

- Built high-performance backend services using **Java, Spring Boot, and AWS EC2**, increasing system throughput and reducing response times by **20%**
- Built **interactive sales dashboards** using **React and D3.js**, enabling real-time visualization of revenue, product performance, and customer trends
- Integrated **distributed caching mechanisms** with **Redis** to optimize **database performance**, reducing query load

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 dashboard** 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

Airline Performance and Flight Delay Analysis | Java, Kubernetes, Spark, Cassandra

January 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: Java, Spring Boot, C++, Python, Node.js.

DevOps and CI/CD Tools: Jenkins, GitHub Actions, Kubernetes, Terraform, Grafana.

Cloud Technologies: Azure, Google Cloud, AWS (Sagemaker, EC2, Lambda, S3).

Databases & Storage: PostgreSQL, MySQL, MongoDB, Redis, Cassandra.

Certifications: [Oracle Cloud Infrastructure Generative AI Professional](#)