

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 - December 2025

Relevant Courses: Advanced Algorithms, Advanced Blockchain, Cloud Computing, Advanced Database Systems

University of Mumbai

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 deployed **microservices-based APIs** using **Java Spring Boot**, reducing latency by **25%** and ensuring seamless integration with department systems
- 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 development of back-end features for **fintech** applications including KYC Scoring and Self-Service Tool using **Java, Spring Boot** and **MySQL**, reducing average page load times for **1M+ users**
- Developed backend **microservices** using **Spring Boot**, employing **Java Executor Service** and **parallel processing pipelines** to enhance request handling throughput by 40%
- Reduced time for generating reports for FED by **7%** by charting transactional data & liquidity assets into a report-generating tool (Triton) developed using **PL/SQL** and **SQL**
- Built scalable **ETL pipelines** using **Java and MySQL on AWS**, optimizing data ingestion workflows and ensuring seamless integration with enterprise systems using **S3 and Lambda** for enhanced efficiency
- 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 a high-performance **e-commerce storefront** using **Java and Spring Boot**, hosted on **AWS EC2**, leading to a **20%** increase in conversion rates due to improved user experience
- Integrated **Spring Security** with **JWT-based authentication**, ensuring secure user sessions and protecting sensitive transaction data
- Optimized **SQL Server queries and indexing strategies**, improving **database read and write performance**, reducing **query execution time by 30%**

PROJECTS

Inventory Prediction System | Python, Machine Learning, SQL, VueJS, Nest.js, AWS

May 2024 – July 2024

- Engineered an **AI-powered** Inventory Prediction System using **XGBoost, Pandas, and Scikit-learn**, integrating a secure **MySQL** database, **NestJS** back-end APIs, and a **Vue.js** front-end, resulting in a **35%** reduction in fleet costs, **20%** fewer stockouts, and improved inventory management across retail stores

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%**

Algorithm Efficiency Analyzer Tool | Python, Django, Streamlit, Algorithms

January 2024 – May 2024

- Developed a Sorting Algorithm data structures Visualizer in **Python using Django**, supporting multiple sorting algorithms (e.g., Bubble Sort, Quick Sort, Merge Sort) with customizable plot parameters and real-time visualization through bar charts
- Implemented features for **user-defined or randomly generated arrays**, displaying **execution times, median of the sorted array, and the kth smallest element**, enhancing the user experience and educational value of the tool

SKILLS

Languages and Frameworks: Java, Python, C++, JavaScript, TypeScript, Spring Boot, React.js, Node.js, Nest.js, MongoDB, React Native, Redux, Tailwind CSS, SQL, MySQL, Selenium(Maven).

DevOps and CI/CD Tools: Hadoop, Apache Spark, Cassandra, Kubernetes, Docker, Git, Linux, Jenkins.

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

Software and Tools: JIRA, Confluence, Vite, Webpack, Storybook, Postman, GitHub, Bitbucket, Google Analytics.

Certifications: Oracle Cloud Infrastructure Generative AI Professional