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

Offiversity of Mullibar

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
- Utilized CompletableFuture and asynchronous non-blocking I/O to improve the responsiveness of data-heavy operations

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 RESTful APIs, 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%
- Designed multi-threaded backend services, utilizing Java concurrency utilities thread pools, improving request processing time by 70%
- 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
- Implemented Spring Security with OAuth2 for secure authentication and RBAC for authentication and authorization, enhancing overall system security and aligning with banking regulatory requirements

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
- Conducted unit testing using JUnit and integration testing with Postman to validate API correctness under different load conditions, improving application stability before production deployment

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, Python, 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