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, React.js, 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 MySQL**, 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**
- Engineered **parallel processing pipelines** with **Java Executor Service**, improving request handling throughput by **46%** and reducing processing time for large datasets
- Designed a dashboard in **React.js and Node.js** used to track service requests, hosted on **AWS EC2**; implemented **state container** using **Redux** to centralize application state resulting in **10%** faster loading time
- Collaborated with cross-functional teams to proactively identify and resolve **production issues**, implementing automated monitoring with **Grafana and Prometheus**, reducing resolution times from **10 hours to 2 hours**
- Reduced time for generating reports for FED by **7%** by charting transactional data & liquidity assets into a **report-generating tool (Triton)** developed using **PostgreSQL**

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
- Designed **interactive sales dashboards** using **React** and **D3.js**, enabling real-time visualization of revenue, product performance, and customer trends
- Developed backend microservices using **Spring Boot and Node.js**, improving transaction processing speed by **20%** and ensuring seamless API integrations

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, JavaScript, React.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