

Sumit Rodrigues

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Professional Experience

Software Developer Intern, CarTechIQ, Inc

August 2025 – Present

- Developed full stack web interfaces for **AI-powered repair tools** using **React** and **Java (Spring Boot)**, integrating **REST APIs** for predictive diagnostics; enhanced UI accessibility by implementing keyboard navigation and ARIA attributes
- Engineered backend microservices in **Spring Boot** and **PostgreSQL** on **AWS** to support MechanicIQ's real-time repair recommendation system; implemented structured logging and monitoring to proactively detect failures
- Configured **CI/CD pipelines** using **Azure DevOps** for automated testing and deployment of Spring Boot microservices and React UIs, reducing release time by 60% and ensuring reliable delivery of AI-powered diagnostics

Software Developer Student Assistant, CSUF

August 2023 – May 2025

- Developed full-stack web applications using **Java, React**; integrated **RESTful APIs** with **data visualization dashboards** for reporting, improving scalability and providing actionable insights with faster processing
- Integrated TitanGPT (ChatGPT-4o) as an **Agentic AI bot** using **PyTorch, TensorFlow** and **OpenAI API**, reducing average content search time from 2 minutes to under 30 seconds and increasing student satisfaction scores by 25% in post-interaction surveys

Software Engineer, BNP Paribas (Bank of the West & BMO)

September 2021 – July 2023

- Led 0–1 product development of **FinTech applications** including KYC Scoring and Self-Service tools using **Java, Spring Boot, React, and PostgreSQL**, optimizing backend performance for over 1Million users
- Accelerated KYC batch workflows by implementing **Java multithreading** with **ExecutorService**, increasing data throughput and slashing processing time by 27%, enabling faster fraud checks and compliance validation
- Built **low-latency Java services** with deterministic performance, optimizing **multithreading** and **garbage collection** to cut fraud detection response times from 1.5s to under 200ms while processing over a million transactions daily
- Architected **distributed data pipelines** with **Java, Spark, and KafkaStreams** processing over 3TB of financial data daily, enabling anomaly detection within 5 seconds and demonstrating high-performance computing for large datasets
- Engineered an **AI-powered compliance assistant** using **LangChain** and **Open AI API**, which automated regulatory document processing and reduced manual review time by 50%
- Tuned **slow queries** in **PostgreSQL** through **indexing** and **batching**, reducing report load time from 5 minutes to under 45 seconds
- Streamlined **CI/CD pipelines** using **Jenkins, Docker, Kubernetes, and Git** for **version control**, reducing deployment time from over an hour to under 12 minutes across KYC and fraud detection services, while ensuring zero-downtime releases

Software Engineer Intern, TechHighway Systems Pvt. Ltd.

May 2020 – July 2020

- Developed a full-stack **e-commerce** web app using **Java, Spring Boot** for backend and **React** for frontend; deployed on **AWS EC2** with custom domain and HTTPS support, adding keyboard navigation and ARIA attributes for accessibility compliance
- Deployed backend microservices built with **Java Spring Boot** on **AWS EC2**, and integrated **Amazon RDS** for **PostgreSQL** database management, improving uptime and scalability for the e-commerce platform

Projects

Inventory Prediction System [[Git](#)] | Python, NumPy, Pandas, Random Forest, XGBoost, SQL, Vue.js, Nest.js, AWS EC2

- Developed an **AI-powered** inventory prediction dashboard using **Vue.js**, integrating **Google Maps API** for geospatial route planning, reducing fleet delivery delays and improving logistics visibility.

Second Serving [[Git](#)] | Python, React.js, TypeScript, FastAPI, MongoDB, NPM, AWS EC2

- Built a full-stack web app that connects surplus food donors with shelters, optimizing donation matching and reducing food waste.
- Integrated **AI-powered expiry verification** via image processing and designed a need-based matching algorithm that pairs donations to shelters based on inventory gaps, location, and capacity, enabling safe and efficient food redistribution.

Education

Master of Science, Computer Science, California State University, Fullerton (GPA 3.81/4.0)

August 2023 - May 2025

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

Bachelor of Engineering, Computer Science, University of Mumbai

August 2017 - May 2021

Relevant Courses: Operating Systems, Artificial Intelligence, Data structures, Object-oriented programming

Skills & Extra Curricular

Languages and Frameworks: Java, Python, GoLang, C++, JavaScript, TypeScript, React.js, Node.js, Next.js

DevOps and CI/CD Tools: Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, GitLab, JIRA, Confluence

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

AI Productivity Tools: Cursor, Claude, Lovable.ai, Perplexity

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