# Sumit Rodrigues

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## PROFESSIONAL EXPERIENCE

**Web Developer Student Assistant** — August 2023 – Present
*California State University - College of Communication* — *Fullerton, California*

- Created full-stack web applications using **Java, Spring Boot and Angular**, enhancing system scalability and responsiveness, resulting in faster data processing and a smoother user experience
- Converted **Figma designs** into reusable, interactive **Angular** components for TUSK Magazine, improving **UI** consistency and development speed by **25%**
- Integrated **TitanGPT** (ChatGPT-4o) as a **chatbot** feature using **Java** based APIs on the Communications website, enabling students and professors to quickly navigate resources, find relevant information instantly
- Consumed and managed **RESTful APIs** with **Angular HTTPClient**, implementing real-time data fetching, caching, and robust error handling

**Software Engineer** — September 2021 – July 2023
*BNP Paribas (Bank of the West & BMO)* — *Mumbai, India*

- Led development for **fintech** applications, including KYC Scoring and Self-Service tools, using **Java, Spring Boot, and MySQL** reducing average page load times for **1M+ users**
- Built a real-time dashboard using **Angular and D3.js**, enabling financial analysts to visualize large datasets efficiently
- Designed and deployed **Java-based RESTful microservices** handling real-time data streams, reducing processing latency by **45%**
- Implemented **unit and integration tests** using **JUnit and Mockito**, integrating them into CI/CD pipelines, reducing pre-deployment bugs by over 70%
- Automated **CI/CD pipelines** with **Jenkins, Docker, and Kubernetes** and **Git** for **Version Control**, 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, India*

- Built a high-performance e-commerce storefront using **Angular and Spring Boot**, hosted on **AWS EC2**, leading to a **20% increase in conversion rates**
- Developed an interactive data visualization dashboard for a UK-based e-commerce store, utilizing **Angular** and **D3.js** to provide **real-time sales insights**, enabling better inventory management
- Optimized frontend performance using **Angular OnPush change detection** and **lazy loading,** resulting in improved load speeds and reduced rendering overhead

## PROJECTS

**Inventory Prediction System** | *Python, Machine Learning, SQL, Vue.js, 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

**Airline Performance and Flight Delay Analysis** | *Java, Python, Kubernetes, Spark, Cassandra* — Jan 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%**

## 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

## SKILLS

**Languages and Frameworks:** Java, Angular, MySQL, JavaScript, TypeScript, React.js, Node.js, Nest.js, React Native, Redux, TailwindCSS.
**Cloud Technologies:** Azure, Google Cloud, AWS (Sagemaker, EC2, Lambda, S3).
**Software and Tools:** JIRA, Vite, Webpack, Storybook, Postman, GitHub, Bitbucket, Google Analytics, MongoDB.
**Certifications:** Oracle Cloud Infrastructure Generative AI Professional