

# Sreeram Bangaru

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## WORK EXPERIENCE

### Software Developer

Aug 2023 - Dec 2024

*George Mason University - School of Business*

- Architected a prototype for an AI-powered student companion app using **Spring Boot**, **React.js** and **MySQL** for efficient data management, assisting 200+ students with essential daily activities on campus.
- Integrated **OpenAI** and **LangChain** to process web-scraped data, delivering personalized suggestions with 90% relevance accuracy and improving app adoption rate by 20%.
- Significantly optimized **SQL** query performances by 70% using techniques like strategic indexing, restructuring joins and caching.

### Full Stack Developer

Oct 2020 - Dec 2022

*Development Bank of Singapore (DBS Tech India)*

- Adhered to **Agile** principles by actively collaborating within a software development team, engaging with clients and cross-functional teams to deliver successful outcomes and meet project objectives.
- Engineered and led the deployment of the Cross-Border Payments Regulation application using **Angular**, **Spring Boot**, and **Spring Security**, ensuring robust transaction security and seamless processing of 10 million international transactions annually.
- Enhanced database efficiency by 30% through optimized **Object-Relational Mapping (ORM)** by integrating **Spring Data JPA**.
- Developed and implemented **Angular** application, leveraging core concepts such as components, **data binding**, routing, forms, and created reusable pipes and services.
- Designed highly scalable solutions using Microservice and Docker based architecture and deployed on AWS environment with High Availability.
- Implemented event-driven architecture using **Kafka** with Spring Boot, optimizing message streaming and real-time data processing in a high-traffic financial environment.
- Managed **CI/CD** pipelines using **Jenkins**, incorporating automated testing and **Git** branching strategies that reducing deployment time and improved code quality through systematic code reviews and merge processes.
- Engineered and deployed highly scalable solutions using a Docker-based microservices architecture on **OpenShift** and **Kubernetes** clusters, ensuring high availability and rapid scaling.

### Software Developer Intern

Jan 2020 - Sept 2020

*ADTRAN Networks India Private Limited*

- Gained a deep understanding of **Spring MVC** while working on network-related projects, applying its architectural patterns to enhance system modularity, efficiency, and maintainability.
- Monitored network performance by analyzing server logs and utilizing **Salesforce** dashboards to track key metrics.

## TECHNICAL SKILLS

**Programming Skills and Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML, CSS

**Web Frameworks:** Spring Boot, Next.js, Angular, React.js, Node.js Tailwind, Material UI

**Technologies:** AWS, GCP, Firebase, Microservices, Kafka, CI/CD, REST APIs, Hibernate, NoSQL, RedHat

**Tools and Utilities:** Git, Bitbucket, Linux, JIRA, Jenkins, Docker, MongoDB, Kubernetes, Postman, Tomcat

**Certification :** Oracle Certified JAVA SE 8 Developer, AWS Certified Developer-Associate

## PROJECTS

**Text SQL** | *Next.js, React, MaterialUI, OpenAI, AWS*

Jul 2024 - Dec 2024

- Built an **AI-powered chatbot** that converts text into SQL queries and displaying results with 98% accuracy.
- Integrated **OpenAI** function calling and **LangGraph** for precise natural language processing.
- Engineered a server-side **Next.js** architecture with **AWS RDS** and **EC2**, ensuring scalable and high-availability database interactions.

**Interview Bot** | *React, Next.js, LLM*

Oct 2023 - Nov-2023

- Developed an AI-powered interview assistant leveraging **Next.js** Server Components and API Routes for real-time audio-based question delivery
- Leveraged **Server-Side Rendering (SSR)** to improve SEO and initial page load performance, while implementing dynamic interview logic that adapts questions based on user responses.

## EDUCATION

**Master of Science in Computer Science**, *George Mason University*

Jan 2023 - Dec 2024

**Bachelor of Technology in Computer Science**, *JNTUH*

Jul 2016 - Oct 2020