Sreeram Bangaru

571-201-7571 | sreeram.bangaroo@gmail.com | LinkedIn | GitHub | PortFolio

Work Experience

Software Developer Aug 2023 - Dec 2024

George Mason University - School of Business *Fairfax, VA*

- 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 Jan 2020 - Dec 2022

Development Bank of Singapore (DBS Tech India) *Hyderabad, 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.
- Used Spring Boot Batch for triggering jobs written in **Shell** Scripting, deployed and orchestrated in a Production environment using **AWS EKS**.
- 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.

Technical Skills

Programming Skills and Languages: Java, Python, JavaScript, TypeScript, SQL, HTML
Web Frameworks: Spring Boot, Angular, React.js, Next.js, Tailwind, Material UI
Technologies: AWS, GCP, Firebase, Microservices, CI/CD, REST APIs, Hibernate, NoSQL, Kafka, 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

Education

George Mason University Fairfax, VA

Master of Science in Computer Science *Jan 2023 - Dec 2024*

Relevant Coursework : UserInterface Design, Object Oriented Programming, Software Testing

Jawaharlal Nehru Technological University Hyderabad, India

Bachelor of Technology in Computer Science Engineering *Jul 2016 - Oct 2020*

Relevant Coursework : Web Development, Data Structures, Database Management Systems

Projects

Text SQL | *Next.js, React, MaterialUI, OpenAI, AWS* Jul 2024 - Dec 2024

- Developed an innovative chat interface for database querying that transforms text into SQL commands, presenting results in an intuitive tabular format with built-in data normalization capabilities for handling diverse data formats.
- Implemented the AI functionality using **OpenAI**'s function calling and **LangGraph** to power the natural language processing, resulting in 98% query accuracy and enabling seamless translation of user questions into precise SQL queries.
- Engineered the full-stack solution using **Next.js** with server-side components, integrating **AWS RDS** for database management and deploying on **AWS EC2** for high availability an scalability.

Connect | *React, Node.js, Google Translation* Oct 2023 - Nov-2023

- Architected a campus navigation web application using **React** and **Node.js**, integrating Google Translation for video note summaries and employing regression analysis to predict restaurant product wastage, reducing costs by 15% in campus dining.