Sreeram Bangaru

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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, Google Cloud, Microservices, CI/CD, REST APIs, Hibernate, NoSQL, Kafka, GraphQL
Tools and Utilities: Git, Bitbucket, Linux, JIRA, Jenkins, Docker, MongoDB, Kubernetes, Postman, Tomcat
Certification : JAVA SE 8 Developer, AWS Certified Developer-Associate

WORK EXPERIENCE

Student Assistant(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.

Software Engineering Fellow   June 2024 - Aug 2024
HeadStarter AI   *Remote*

- Built 5+ AI apps and API using NextJS, OpenAI, PineCone, **StripeAI** with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

Full Stack Developer   Oct 2020 - Dec 2022
Digital 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**. Designed scalable microservices to elevate system performance.
- Used Spring Boot Batch for triggering jobs written in **Shell** Scripting, deployed and orchestrated in a Production environment using **AWS EKS**.

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*   Jul 2024 - Dec 2024

- Developed a chatbot using OpenAI's function calling and LangGraph for intuitive text-based table queries, achieving 98% search accuracy.
- Built the front-end with **Next.js** and **Material-UI** for a seamless user interface and deployed the application on **Vercel** for efficient cloud hosting. The application has given 95% accurate results as seen by 460 users.

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.
- Improved payment gateway's efficiency by 22% through the utilization of **React Hooks** inside the functional components.
- Secured first place among 80+ teams in a university hackathon for innovative business idea and implementation.