

# 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, Tailwind, Material UI

**Technologies:** AWS, 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 - Present

*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 - Present*

*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

### Rate My Professor | *Next.js, React, MaterialUI, OpenAI*

Jul 2024 - Aug 2024

- Developed an AI-powered web application leveraging Pinecone and OpenAI for data embedding and retrieval, achieving 95% 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.