Sayeera Shaik

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SUMMARY

Experienced software engineer with expertise in API integration, performance optimization, and full-stack development. I am skilled in Python, Java, JavaScript, Angular, Docker, and MongoDB. Thrive in dynamic environments, delivering efficient and reliable solutions.

EDUCATION

University of Missouri-Columbia   **Columbia, MO**
Master's in computer science   August 2022-Present

SKILLS

Programming Languages: C, Java, Python, JavaScript, TypeScript
Databases: SQL, MySQL, MongoDB, Oracle, MSSQL, RDBMS, Snowflake
Frameworks and Libraries: React, Angular, Node.js, Django
Development Tools: Eclipse, Visual Studio, Git, Jupyter
Operating Systems: Microsoft Windows, Linux

PROJECTS

- **Single-Cell Protein Analysis:** Developed a React and Python-based web application for single-cell protein analysis, enhancing the understanding of protein functions and interactions.
- **N-Rate Analysis:** Created a web application using JavaScript and R to analyze and improve nitrogen (N) fertilizer recommendations for crop production.
- **Protein Structure Analysis (P3DB):** Worked on a protein structure analysis application using Angular and TypeScript to enhance visualization and understanding of protein interactions.
- **Structured Financial Messaging System (SFMS):** Developed and maintained an SFMS project for the Reserve Bank of India using Java, SQL, and Tomcat, enhancing intra/inter-bank communication and supporting NEFT and RTGS.

WORK EXPERIENCE

University of Missouri   **Columbia, MO**
Graduate Student Assistant   Oct 2022 -Present

- Developed and deployed a React-based web application for single-cell data analysis, integrating Python, R, and cloud services, successfully deployed on AWS EC2.
- Enhanced REST APIs using Flask, resulting in a 60% improvement in response time.
- Utilized Git for efficient version control and code management.
- Improved data retrieval speed by 25% through seamless integration with MSSQL, MySQL, and MongoDB.
- Achieved 40% reproducibility of workflows by containerizing them with Docker.
- Developed web applications from scratch using Django, Python, and JavaScript, connecting with databases for efficient data management.

Tata Consultancy Services   **Hyderabad, IND**
Associate Software Developer   May 2019-July 2022

- Developed and rigorously tested RESTful APIs for banking systems using test-driven development methodologies in an agile team environment.
- Integrated Structured Financial Message Systems (SFMS) with Tomcat, MySQL, JSP, and Core Java.
- Enhanced intra/inter-bank communication, supporting NEFT and RTGS.
- Optimized SFMS messaging, reducing latency by 40% through efficient query optimization and network protocol enhancements.

ACHIEVEMENTS AND CERTIFICATIONS

- Institution of Electronics and Telecommunication Engineers (IETE) (08/2015 - 05/2019)
- Winners of Idea Lab Hackathon
- Microsoft Machine Learning certification
- AWS Developer Associate (in progress)