

Sayeera Shaik

Columbia, MO | [LinkedIn](#) | (816) 775 0739 | sayeerashaik97@gmail.com | [My Portfolio](#)

SUMMARY

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

WORK EXPERIENCE

University of Missouri

Graduate Student Assistant

Columbia, MO

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

Associate Software Developer

Hyderabad, IND

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.

EDUCATION

University of Missouri-Columbia

Master's in computer science

Columbia, MO

August 2022-Present

SKILLS

Programming Languages: C, Java, Python, JavaScript, TypeScript

Databases: SQL, MySQL, MongoDB, Oracle, MSSQL, RDBMS

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.

ADDITIONAL INFORMATION

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