# **Sayeera Shaik**

Columbia, MO | [LinkedIn](https://www.linkedin.com/in/sayeera-shaik/) | (816) 775 0739 | [sayeerashaik97@gmail.com](mailto:sayeerashaik97@gmail.com) |  [Portfolio](https://sayeera-portfolio.netlify.app/)

**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)