SAYEERA SHAIK

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EDUCATION

University of Missouri-Columbia
Columbia,Missouri
Master of Science in Computer Science — Anticipated Graduation: **May 2024**

VNR Vignana Jyothi Institute of Engineering and Technology
Hyderabad, India
Undergraduate in Electronics and Communication Engineering — **June 2015** – **May 2019**

WORK EXPERIENCE

UNIVERSITY OF MISSOURI **2022 – present**
STUDENT ASSISTANT - RESEARCH / DIGITAL BIOLOGY LAB

- Developed UI and various functional APIs for a seamless end-to-end website experience. Created a login page for the user interface using JavaScript, implementing 2 distinct APIs for enhanced functionality.
- Utilized Angular v16 to design and implement dynamic user interfaces, including drag and drop, search interface, forms, dashboard widgets, navigation menus, etc.
- Assisted in designing and implementing responsive web pages, ensuring a consistent user experience across devices, resulting in a 98% consistency rating across devices in user testing.
- Spearheaded the optimization of a scRNA-seq workflow, reducing processing time and integrating CloudLab, resulting in a 40% increase in data throughput for large-scale analyses.
- Used version control systems like Git for collaborative and efficient code management.
- Containerized workflows with Docker, ensuring 100% reproducibility and seamless deployment.

TATA CONSULTANCY SERVICES **2019 – 2022**
ASSOCIATE SOFTWARE ENGINEER

- For 3.2 years, developed REST APIs for banks using test-driven development and contributed to their creation, documentation, and testing.
- Provided prompt assistance with banking matters where the primary focus was developing and maintaining test-driven development REST APIs. As a result, application dependability increased by 25%.
- Responsible for the entire software development lifecycle, including the testing and documentation procedures. This led to a 30% decrease in software defects and problems.

- In-depth involvement in the entire software development life cycle(SDLC), successfully designed, built, and maintained microservices for banking applications, and delivered software solutions of superior quality while working inside an Agile/Scrum framework.
- Coordinated seamless integration of Structured Financial Messaging System (SFMS) with Tomcat, MySQL, JSP, and core Java technologies, enhancing secure intra/inter-bank communication and supporting applications like NEFT and RTGS.
- Led the way for the optimization of SFMS messaging within the bank, resulting in a 40% decrease in message latency and enabling faster processing of critical financial transactions.
- Contributed significantly to the development of the code for new change requests made by the RBI for the SFMS banking application, guaranteeing compliance and fulfilling 100% regulatory criteria.
- Initial hands-on work experience in application development using Core Java and JDBC technologies, MYSQL, and Oracle to run the application and resolve technical glitches.

TECHNICAL SKILLS

- Back-end technologies – C, Java, .NET, Python, React
- Front-end technologies - HTML, JavaScript, jQuery
- Web Frameworks – Node.js, Angular, Flask
- Tools - Eclipse, Visual Studio, Git, Jupyter
- Machine Learning – R, Matlab
- Databases: MySQL, SQLite, Oracle, MongoDB
- Operating Systems: Microsoft Windows, Linux (Ubuntu), Unix
- Scripting: PowerShell, Typescript
- Web development: HTML, CSS, ES6.

PROJECTS / INTERNSHIPS

- Interned for 6 weeks on “web development” on an online Internshala training program.
- For 6 months, I designed a “Book recommendation system using Machine learning” project as an undergraduate project which is useful for getting personalized recommendations based on a person's age, book tags, and other factors.
- Completed the “Machine Learning” course certified by Microsoft and worked on various Python algorithms that make predictions over a huge data set.
- To predict a protein sequence's 3D structure from its amino acid sequence, built a training model that accepts missing backbone coordinates and predicts sequences for partially masked structures using CNN and a set of Hyperparameters for the ESM model in Inverse Folding => Colab Inverse Folding