Mohid Tanveer

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EDUCATION

Rhodes College   **Expected May 2025**
B.S. Computer Science, Overall GPA: 3.88/4.00   *Memphis, TN*

- **Relevant courses**: Artificial Intelligence, Databases, Advanced Algorithms, Mathematical Statistics, Statistical Analysis, Multivariable Calculus, Data Structures and Algorithms, Discrete Structures, Computer Systems, Systems Programming and Computer Organization, Software Engineering, Programming Languages, and Graphics/VE/HC Interaction
- **Honors**: Honor Roll and Dean's List

EXPERIENCE

St. Jude Children's Research Hospital   **May 2024 - Present**
High-Performance Research Computing - Student Artificial Intelligence Engineer   *Memphis, TN*

- Researched and implemented an internal GPT-based model leveraging a Retrieval-Augmented Generation (RAG) pipeline to convert unstructured data into meaningful insight and ensure secure handling of patient info and other sensitive data within the organization; Integrated knowledge graphs to improve accuracy and precision of the model within research contexts

High-Performance Research Computing - Intern

- Created a Flask job server microservice automating the conversion of tagged image files to a SyGlass project file for researchers; integrated the microservice with an internal imaging file-sharing service, improving workflow and productivity by removing this task from the researchers' plate
- Established automated network testing, data visualization, and data analysis targeting research storage from various points of St. Jude's campus; providing for consistent testing of network resources and identifying potential points of concern within the network path, employing statistical methods and data analysis
- Installed Splunk logging services on workstations in the Visual Lab to query logs to answer questions regarding machine utilization and display relevant metrics; providing a means to valuable business intelligence toward resource allocation

Rhodes College Department of Computer Science   **August 2023 - Present**
Peer Tutor   *Memphis, TN*

- Tutored and guided ~100 introductory and intermediate Computer Science students in twice-weekly sessions
- Designed individual lessons and aid to ensure the students' success by assessing their strengths and weaknesses regarding knowledge of the relevant curriculum

First Choice Medical Care   **May 2021 - August 2021**
Information Technology Intern   *Dyersburg, TN*

- Deployed a new computer database to store 3,000+ patients' medical records at the clinic
- Automated tedious office tasks for employees, improving overall productivity by reducing time for these tasks by ~90%
- Prepared comprehensive documentation and conducted training sessions for 15 employees, enabling them to utilize the new database and automation tools effectively

PROJECTS

weLikethis   **August 2023 - Present**
Web Application   *Repository Link (access by request)*

- Employed Python-based Flask framework with MongoDB and SQL databases, React, and SSL encryption to create a web application enabling users to share and explore music preferences, fostering connections based on musical compatibility
- Utilized machine-learning techniques in determining the likelihood of a song fitting within a user's music taste.
- Implemented user authentication and password encryption using industry-standard techniques, ensuring data security and privacy for application users. Employed salting and hashing methodologies to protect sensitive user information
- Utilized Spotify's API and designed custom API endpoints within the web application to seamlessly integrate music-related functionalities, enabling users to access their Spotify data and perform various actions within the application. Employed RESTful principles for efficient data exchange and enhanced user experiences

mohid-tanveer.github.io   **May 2023**
Portfolio Website   *Repository Link*

- Created an efficient, multi-page layout with consistent user experience through React.js, detailing my projects and interests

SKILLS

Technical: Advanced in Python. Proficient in C, Java, and SQL. Experienced in C++, HTML/CSS, JavaScript, Node.js, and R.
Languages: Fluent in English, Urdu, and Punjabi; Conversational Proficiency in Spanish, Hindi
Honors: Eagle Scout