

Mohid Tanveer

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EDUCATION

Rhodes College

Expected May 2025

B.S. Computer Science, Overall GPA: 3.92/4.00, Major GPA 3.96/4.00

Memphis, TN

- **Relevant coursework:** Artificial Intelligence, Databases, Advanced Algorithms, Mathematical Statistics, Statistical Analysis, Graphics/VE/HC Interaction, Multivariable Calculus, Data Structures and Algorithms, Discrete Structures, Computer Systems and Systems Programming, and Programming Languages.
- **Honors:** Honor Roll and Dean's List in all semesters, High School Essayist (3/92), Boy Scout Eagle Scout

EXPERIENCE

St. Jude Children's Research Hospital

May 2024 - Present

High-Performance Research Computing - Computational Engineering Intern

Memphis, TN

- Installed Splunk logging services on workstations in the Visual Lab to query logs answering questions regarding machine utilization; providing a means to valuable business intelligence towards resource allocation
- Created a Flask job server micro-service automating the conversion of tagged image files to a SyGlass project file for researchers; then integrated the micro-service with a company internal imaging file-sharing service, improving workflow and productivity by removing this task from the researchers' plate
- Established automated network testing and creation of data visualization 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

Rhodes Department of Computer Science

August 2023 - Present

Peer Tutor

Memphis, TN

- Tutored and guided ~50 introductory and intermediate Computer Science students in one-on-one weekly sessions
- Designed individual lessons and extra help 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

Peer Tutor

Dyersburg, TN

- Deployed a new online database to store approximately 3,000+ clinic patient medical records
- 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 effectively utilize the new database and automation tools

PROJECTS

weLikethis

August 2023

Web Application

[Repository Link \(access by request\)](#)

- Employed Python-based Flask framework with a MongoDB database, React, and SSL encryption to create a web application enabling users to share and explore music preferences, fostering connections based on musical compatibility
- Implemented user authentication and password encryption using industry-standard techniques, ensuring data security and privacy for users of the application. Employed salting and hashing methodologies to protect sensitive user information
- Utilized Spotify's API and designed custom API endpoints within the 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](#)

- Evolved from basic web development to creating an efficient, multi-page layout with consistent user experience; porting to React mid-development, showcasing adaptability and commitment to continuous improvement

Rhodes Ramble

May 2023

Anonymous Social Media via Command-Line

[Repository Link \(access by request\)](#)

- Applied program client/server programming, networking, and project management skills to create an application that runs via terminal where users can post anonymously for other users to upvote, downvote, or comment on
- Demonstrated proficiency in implementing data structures such as hash maps to optimize application functionality

SKILLS

Technical: Advanced in Python. Proficient in C, HTML & CSS, JavaScript, Node.js/React.js, SQL. Experienced in C++ and R.

Languages: Fluent in English, Urdu, and Punjabi; Conversational Proficiency in Spanish, Hindi