Aamir Mohsin

aamirsmohsin@utexas.edu | (682) 561-6810 | linkedin.com/in/aamirsmohsin | github.com/aamirsmohsin

Education

The University of Texas at Austin   **Aug 2021 – May 2025**
Bachelor of Science in Electrical and Computer Engineering Honors   *Austin, TX*
- **Computer Skills**: Python, Java, JavaScript, HTML/CSS, Assembly, C/C++, MongoDB, ExpressJS, ReactJS, NodeJS, Git
- **Overall GPA**: 4.00

Experience

Texas Institute for Discovery Education in Science (Computational Materials Lab)   **Jan 2022 – Present**
Undergraduate Research Assistant   *Austin, TX*
- Create a Python script that simulates ~1000 fuel cell reactions to determine potential catalysts based on optimal binding energies of materials by analyzing file pathing, input code, and output results
- Utilize the Regular Expression library to match expected simulation outputs to all unique answer structures
- Eliminate the need for professor oversight of students running simulations through immediate script feedback

Chelsea Hall Learning Center   **Sep 2020 – May 2021**
Teaching Assistant   *Dallas, TX*
- Instructed 30+ students in data structures, object-oriented programming, and recursion in preparation for the AP Computer Science A exam
- Designed PSAT, SAT, and ACT curriculums, helping 10+ students achieve scores above the 95th percentile

Projects

Restaurant Reviewer | MongoDB, ExpressJS, ReactJS, NodeJS   **Aug 2022**
- Developed a full-stack web application allowing users to read and create reviews for 25000+ restaurants
- Built a REST API using ExpressJS to interact with a MongoDB cluster and retrieve restaurant review information
- Implemented querying functionality to filter the database collection by name, zip code, and cuisine

Sorting Algorithm Visualizer | Python   **Jul 2022**
- Developed a visualizer using the Pygame library that displays bubble sort, insertion sort, and selection sort in ascending and descending order
- Wrote generator-functions in place of normal functions to allow users to interrupt sorting with keystrokes

Reddit Bot | Python, Reddit API, Flask   **Jan 2022**
- Created a bot using the Python Reddit API Wrapper that processes Reddit submissions and user instances
- Utilized the CSV and JSON libraries to parse files and generate randomized content for daily posts and replies
- Designed a Flask web application that allows the bot to continually interact with submissions

Leadership and Activities

National Organization for Business and Engineering | Vice President External   **Jul 2022 – Present**
- Arrange corporate-sponsored meetings for up to 50 members by corresponding with 20+ company recruiters
- Coordinate with a team of 5 to increase campus engagement by renewing social media presence and newsletters

Society of First-Year Engineers | Logistics Committee Lead   **Aug 2021 – May 2022**
- Organized an initiative in 6 weeks providing free checkout access to computer chargers for 47 students at a time
- Led a team of 7 to research checkout locations on campus through collaboration with Cockrell School directors
- Administered surveys to 300+ engineering students to determine demand for types of chargers

Additional Information

Interests: Financial Markets, NFL Football, Typing, Speech and Debate, Microwave Chocolate Mug Cakes
Work Eligibility: Eligible to work in the U.S. with no restriction