

SYED MUSTAFA

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EDUCATION

- **University of Michigan**, Ann Arbor, MI Graduation Date: Dec 2024
BS Computer Science and Neuroscience
Relevant Coursework: Data Structures & Algorithms, Computer Organization, Theory of Computation, Probability & Statistics

EXPERIENCE

- **dotPrompt**, Ann Arbor, MI June 2023 - Present
Software Engineer
 - Developed Figma designs and created front-end components for a platform enabling knowledge workers to build powerful workflows in simple natural language using OpenAI prompts
 - Added support for responsive UIs for both mobile and tablet using React.js and TailwindCSS
 - Configured golden tests with React.js to ensure front-end test coverage and mitigate UI regressions
 - Created a primary dashboard and a workflow builder with drag-and-drop functionality using React components and JavaScript to allow users to create custom scripts and jobs using natural language prompts
 - Implemented authentication using Node.js + Firebase Auth and added support for bookmarking existing prompts to user library
- **Peer Tutor for Programming & Data Structures and Discrete Mathematics** Sep 2022 - May 2023
College of Engineering
 - Provide personalized aid on complex problem sets to student base of 40 to increase comprehension in discrete mathematics and elementary data structures and programming concepts
- **Michigan Medicine, Metabolism, Endocrinology, and Diabetes Lab** Sep 2020 - Sep 2021
Undergraduate Research Assistant
 - Conducted research about how beta cell affect diabetes through genetic manipulation of mice
 - Ran electrophoresis gel and used software to label and analyze pixel density for 50+ gene combinations, created linked spreadsheets to handle mice diet and test procedures for 150+ mice
 - Used Fiji and ImageJ to automate the process of defining beta-cell area in stained slide images with up to 100+ images/slide
- **President, Muslim Students' Association**, Ann Arbor, MI May 2023–Present
University of Michigan
 - Responsible for overseeing the oldest MSA in the United States with over 1500 registered members; regularly plan and execute events that strengthen bonds within the Muslim community
 - Conduct student advocacy within the university to ensure an inclusive environment for students, employees, and dorm residents

SELECTED PROJECTS

- **Alumni Directory**, *Connecting Michigan Muslims to helpful alumni* muslims.studentorgs.umich.edu
 - Developed an alumni directory for Michigan Muslims using Svelte, Node.js, and Firebase, resulting in an efficient CRUD web application and connects current students to a large database of alumni in their fields
- **EECS 281: Data Structures and Algorithms**, *Course projects*
 - DFS/BFS Terrain Navigator: Stack and Queue based solutions to find optimal path in 3D maps with various terrain
 - Zookeeper: heuristic programming and graph theory to efficiently find somewhat optimal paths and most optimal path that visits each vertex in a map

PUBLICATIONS

- Hussain, M. A., Laimon-Thomson, E., Mustafa, S. M. (2021). *Detour ahead: Incretin hormone signaling alters its intracellular path as beta-cell failure progresses during diabetes. Frontiers in Endocrinology, 12.*

SKILLS

Programming Languages: C/C++, Python, Dart, JavaScript
Frameworks/Libraries: React.js, Node.js, Bootstrap
Spoken Languages: Hindi, Urdu, English