Tyler G. McDonald

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A diligent, motivated computer science student equipped with technical skills and a team-first mindset.

EDUCATION

Michigan State University – East Lansing, MI   Expected Graduation: December 2024
Bachelor of Science, Computer Science
- **GPA:** 3.96
- **Clubs/Societies:** Tau Beta Pi, Michigan Alpha Chapter
- **Honors/Awards:** Dean's List 6/6 Semesters

EXPERIENCE

Auto-Owners Insurance – Lansing, MI   May 2023 – August 2023
Software Developer Intern
- Worked on the Agency Interface Web Systems team with the goal of creating and maintaining a variety of software applications written in Java.
- Developed a transaction quota validator using Java and Spring that tracks the number of new business proposals a user creates and prevents anyone over a given limit from creating one in attempt to prevent bad actors from accessing our systems.
- Refreshed multiple webpages on the associate intranet with a custom CSS framework along with HTML and JavaScript to meet new user interface standards.

Michigan State University - East Lansing, MI   August 2022 – Present
Algorithmic Thinking and Programming (CSE 102) Undergraduate Learning Assistant
- Co-led multiple classes of twenty to thirty students by presenting slideshows and demonstrating interactive activities that enforce core programming concepts.
- Assisted students with labs and projects by understanding and interpreting Python code using the zyBooks and Codio platforms.
- Attended weekly staff meetings to discuss tactics to create a better educational experience for our students.

PROJECTS

Personal Portfolio Website – East Lansing, MI   January 2023
- Learned and applied HTML and CSS to structure and style a multi-leveled, static website that includes home, about me, and blog sections.
- Utilized the Bootstrap 5 framework to make the website responsive to accommodate different screen sizes and to incorporate interactive features (such as modals, animated buttons, etc.).

AI-Based Messaging App – East Lansing, MI   June 2023
- Contributed to the development of an AI-based messaging app with a Flutter/Dart frontend and a Python/Django backend.
- Designed an emoji reaction feature that allows users to react to a message with one of five animated emojis by implementing a bottom sheet popup on the frontend and making several API calls to save the reactions to the Django database.
- Assisted in fixing frontend bugs and improving the knowledge of the various AI models.

SKILLS

Python, Java, C, C++, HTML, CSS, JavaScript, Bootstrap, Django, Flutter, Dart

LINKS

https://github.com/tygmcd, https://tygmcd.github.io, https://www.linkedin.com/in/tyler-g-mcdonald