

Aidan Kelley

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EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science

April 2024

GPA: 2.97 / 4.00

Coursework: Data Structures and Algorithms, Introduction to Computer Organization, Introduction to Machine Learning, User Interface Development, Introduction to Theory of Computation

SKILLS

Computer Skills: Windows, Unix, Git, Microsoft Office, Autodesk Inventor/Fusion 360, PC Building

Programming Languages: C, C++, Python, Java, MATLAB, HTML, CSS

PROJECT EXPERIENCE

University of Michigan

Ann Arbor, MI

Log Manager

October 2021 – November 2021

- Created a program using C++ to manage data logs including functionality to search by upload times, categories, and contained words
- Designed custom classes and data structures to allow for efficient organization and access of log files
- Optimized runtime and memory usage by analyzing and improving algorithms and data structures currently in use

Pipeline Simulator

February 2022 – March 2022

- Programmed a simulator in C for the processes in a pipelined CPU including hazard handling and memory management
- Analyzed and produced assembly code and machine language to interact with the pipeline and further understand the innerworkings of a processor

Obstacle Course Robot

January 2021 – April 2021

- Assembled and coded a robot in Arduino using a closed-loop, PI control scheme that successfully completed an obstacle course involving navigation and pallet lifting
- Worked in a team to experience the engineering design process of collaborative design, prototyping, programming, and testing

Personal Project

Ann Arbor, MI

Wordle Bot

April 2022 - Present

- Created a Discord bot in Python to automatically collect Wordle scores and hold a current leaderboard and record of players' past scores
- Utilized libraries and read documentation to understand asynchronous events and real time communication with servers
- Created repositories and hosted the bot remotely to learn about the active development cycle of an application

WORK EXPERIENCE

Lowell Senior High School

Lowell, MI

Assistant Varsity Tennis Coach

April 2021 - July 2022

- Aided students in learning technique and game strategy resulting in exceptional tournament results
- Promoted a positive environment for all athletes, which helped to diminish stress and increase enthusiasm
- Coordinated successful region-wide events involving 8 schools and over 100 athletes by communicating effectively with a team of coaches

LEADERSHIP EXPERIENCE

Fusion Rock Orchestra

Lowell, MI

Senor Section Leader

August 2018 – June 2020

- Performed and soloed as viola section leader to entertain large groups of spectators
- Encouraged younger members to play confidently and create lasting friendships
- Planned successful gigs and performances seen by thousands of people