Brett Wiseman

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EDUCATION

University of Notre Dame, College of Engineering   **Notre Dame, IN**
Bachelor of Science | Computer Engineering   **May 2023**
GPA: 3.882

Honors: College of Engineering Dean's List, Blackhawk Alumni Scholarship recipient and member
Relevant Courses: Embedded Systems, Circuits/Electrical Engineering Lab, Operating Systems, Computer Architecture
Data Structures, Systems Programingm, Logic Design

SKILLS

Programing Languages: C, C++, Python, Bash/sh, Matlab, Solidworks, HTML/CSS, ARM/Assembly
Frameworks: Linux Terminal, Verilog, Git/Github, Vim, Arduino

EXPERIENCE

Undergraduate Teaching Assistant   **Notre Dame, IN**
Data Structures and Systems Programming   **Fall 2021 - Present**
- Help students develop a better understanding of relevant data structures as well as C++ classes, git / github submissions, and memory management
- Assist students in learning concepts such as shell scripting, data processing with python, and system calls in C
- Manage a group of students as they developed software by hosting code reviews and giving feedback throughout the project

Cooperative Computing Lab (CCL)   **Notre Dame, IN**
Undergraduate Research   **Fall 2021 - Present**
- Back-end Developer working on high level python abstractions for parallel computing and distributed systems software to match results running on local machine
- Contribute to Work Queue software used by thousands of users and at other universities such as the University Wisconsin
- Attend weekly meetings to present progress, and discuss possible ways of improvement

PROJECTS

Message Queue   **Fall 2021**
- Practice use of synchronization primitives and multi-threading by building a chat application that uses a personally developed C library to send and receive messages based on subscribing and publishing to queues in a server
- Learned to use the ncurses library to design the user interface of the chat application

Cisco Systems - Open MPI   **Spring 2021**
- Contributed to open source project (Open MPI) by fixing issues in Github Action CI
- Implemented code to check cherry-picked committed to ensure in merged was allowed before merge for all parent commits
- Organized team meetings and lead team discussions

Personal Email Server   **Summer 2021**
- Configured a virtual linux machine into a personal email server with a Vultr cloud server utilizing mail-in-a-box services with custom domain name
- Integrated several applications as a root user on linux terminal

Morse Code Decoder   **Fall 2020**
- Collaborated with peers to design and implement an Arduino based project
- Developed software with hardware to receive input morse code from a user and return translations onto a LCD