

Jackson Donaldson

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EDUCATION

University of Michigan

Bachelor of Science in Engineering in Computer Science

GPA: 4.0 / 4.0

- Completed courses: Data Structures and Algorithms, Intro Data Science
- Current courses: Cybersecurity, Computer Organization, Natural Language Processing

Ann Arbor, MI

December 2024

Hartland High School

Valedictorian

GPA: 4.0 / 4.0

Hartland, MI

May 2022

WORK EXPERIENCE

Caesar Creek Software

Software Engineering Intern

Miamisburg, OH

May 2023 - August 2023

- Developed skills in the C++ Windows API, Linux Kernel Module implementation, writing PEP 8 compliant Python, and embedded system design
- Collaborated with a partner to reverse engineer and research vulnerabilities of the Google Nest Protect, a smart smoke alarm running FreeRTOS
- Gained understanding of SPI flash protocol, OpenWeave network layer, GATT Bluetooth stack, USB MMC protocol, and cross compilation to ARM cortex CPUs

SKILLS

Programming: Python, C++, C, C#

Software: Git, Ghidra, Burp Suite, SolidWorks, OpenOCD

ACTIVITIES

Member, WolvSec Cybersecurity Club

August 2022 - Present

- First place in WolvCTF 2023, University of Michigan division

Personal Projects

2018 - Present

- Including 3D Tetris, Advent of Code leaderboard solutions, and more; see jacksondonaldson.github.io

Member, Michigan Hackers Advanced Web Team

January 2023 - May 2023

- Initialized Amazon AWS instances; used elastic load balancing to mitigate DDOS attacks

Control Systems Lead, Hartland High School Robotics

February 2021 - May 2022

- Responsible for leading the expansion and development of robot control code; reached national semifinals in 2022 FRC robotics.