

Noah Charlton

1804 Carlyle Ct., Newark Ohio, 43055 • ncharlton002@gmail.com • (740)-334-1769 • noahcharlton.com

Education

The Ohio State University - B.S. Computer Science and Engineering

May 2025

GPA: 4.00 / 4.0

Relevant Experience

Undergraduate Teaching Assistant - The Ohio State University

Aug. 2022 - Present

- Educated students in Fundamentals of Mathematics for Engineers.
- Graded problem sets and left feedback to build student understanding of concepts.
- Assisted students during labs about Excel, electronics, and MATLAB.
- Reviewed student lab reports to help develop their technical writing skills.

Student Research Assistant - The Ohio State University

Apr. 2022 - Present

- Modeled 7 consecutive months of missing sensor data using machine learning.
- Automated time shift calculations for different sensors using MATLAB and linear regression.
- Debugged and updated software from previous researchers to reflect sensor changes.
- Presented research at the 2022 Summer Undergraduate Research Forum.
- Created and taught a classroom activity about data engineering as a part of the TEK-8 program.

Student Data Center Technician - Ohio Supercomputer Center

Jan. - Apr. 2022

- Repaired and troubleshooted server hardware from Intel, Dell, and Nvidia.
- Documented incidents and repairs for infrastructure and compute nodes.
- Utilized Linux command line to remotely diagnose compute nodes.

Awards and Involvement

Underwater Robotics Team - The Ohio State University

Aug. 2022 - Present

- Member of the Navionics and Firmware teams.
- Developed custom firmware in C for robot's embedded microcontroller.

FIRST Robotics Team Mentor - Columbus School For Girls

Sept. 2021 - Present

- Mentored students on Java programming, Object Oriented design, and Computer Vision. .
- Developed and presented a 3 hour workshop for high schoolers about programming and wiring.
- Coached students on leadership skills to help maintain team progress.
- Guided students on embedded software development using C++ and Arduinos.
- Executive Board member for FIRST Robotics Alumni at Ohio State

Hack OHI/O Grand Prize Winner - The Ohio State University

Nov. 2021

- Awarded 1st Place in Ohio State's annual 24 hour coding competition.
- Collaborated with a 4 person team to develop a mouse controlled by hand movements using Python, a top-down webcam, and machine learning.
- Winner of Microsoft Sponsor Award and Audience Choice Award.

Technical Skills

Relevant Coursework: Honors Fundamentals of Engineering, Data Structures, Calculus II, Statistics and Probability, Linear Algebra, and Differential Equations.

Programming Languages: Java, MATLAB, Javascript, Python, C, C++, Rust.

Programming Tools: Git, GitHub, Gradle, GNU Tools, Cargo, IntelliJ, Eclipse.

Hardware and Software: Wiring, Soldering, Fusion 360, SolidWorks.