

Dominik Winecki

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🎓 Education

The Ohio State University

Pursuing an M.S. in Computer Science and Engineering

August 2021 - 2022

The Ohio State University

Pursuing a Bachelor's in Computer Science and Engineering; 3.7 GPA

August 2018 - December 2021

🕒 Experience

Azuga - Intern

June 2021 – Present

- › Building, training, and deploying video AI models to find driving insights
- › Analyzing and enriching telematics data across sources

Mobikit - Engineering Intern

August 2019 – May 2021

- › Worked at a small telematics data startup for +70% of its existence prior to its acquisition by Azuga
- › Built realtime data ingest, processing, and analytics systems
- › Implemented a secure SQL query backend API, and frontend components that used it
- › Used AWS Lambda & Redshift for analytics scalability tests and demos up to 100 billion+ records
- › Wrote a spatio-temporal data reduction and transformation library; up to 200x faster querying of high-fidelity data.

READY Robotics - Software Engineering Intern

May 2019 – August 2019

- › Moved full product lineup to a unified custom network manager stack
- › Built auto-configuration tool for partner companies
- › Implemented service for cross-container and host configuration

OSU Interactive Data Systems Lab - Student Research Assistant

May 2018 – May 2019

- › Designed software for distributing video processing loads over a cluster in real time
- › Wrote “On the Fly Dynamic Graph Generation for Video Processing”, presented at the *2019 National Conference of Undergraduate Research*.
- › Built a HoloLens demo for querying by voice in Augmented Reality

👥 Involvement

OHI/O Hackathon Org. - President, HackOHI/O 2020 & 2021 Co-lead

- › Co-lead Ohio's largest hackathon with 20+ organizers and 450+ participants
- › Worked on website, cross-org collaborations, and COVID-related migrations to online events

OSU Open Source Club - Webmaster → VP → President

- › Gave talks on Rust and cloud hosting, rebuilt website, and managed server infrastructure

First Robotics Competition - Former Lead Programmer/Mentor, Team 1014

- › Developed a [three degree-of-freedom vector based swerve drive control algorithm](#), which allows robots to rotate and move simultaneously
- › Spent a year working on a CNC Plasma cutter to allow for continuous rapid prototyping. Frame build time went from weeks to hours, weight halved, and strength increased

⚙️ Skills

Languages: Python, C/C++, Java, Rust, SQL, \LaTeX

Technology: [Git](#), Linux, Docker/OCI Containers, Databases, AWS, Robot Operating System