

Dominik Winecki

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🎓 Education

The Ohio State University

Pursuing a PhD in Computer Science under advisor Prof. Arnab Nandi

August 2022 -

The Ohio State University

Pursued a Master's in CSE, switched to PhD; 3.7 GPA

August 2021 - August 2022

The Ohio State University

Bachelor's in Computer Science and Engineering; 3.729 GPA

August 2018 - May 2022

🔧 Experience

OSU Interactive Data Systems Lab - Graduate Research Associate

May 2022 -

- › Building video & data systems for augmented reality
- › Working on efficiently running ML models on edge devices

Azuga - Software Engineering Intern - Data Science Team

June 2021 - October 2021

- › Built, trained, and deployed AI models to find driving insights on thousands of hours of video
- › Wrote tooling to recreate scenes in 2d from multiple data sources
- › Created dashcam-optimized algorithms for object tracking and analysis

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 180x 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 2020 & 2021 academic years, HackOHI/O 2020 & 2021 Co-lead

- › Twice co-lead Ohio's largest hackathon with 450+ participants
- › Managed logistics of \$85k+ budget events with up to 20 person organizing teams

OSU Open Source Club - President 2021 academic year

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

⚙️ Skills

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

Technology: Git, Linux, Docker/OCI Containers, Databases, AWS, Robot Operating System