Gannon Smith

906-322-6919 | gansmith@umich.edu | linkedin/gannonsmith | github/gannonsmith | gannonsmith.github.io

EDUCATION

University of Michigan College of Engineering — Ann Arbor, MI

BSE in Computer Science Engineering, Minor in Electrical Engineering | GPA: 3.76/4.00 — *Sept. 2021 – May. 2025*

Coursework: **Advanced Operating Systems**, Artificial Intelligence, Computer Security, **Machine Learning**, Computer Science Theory, **Web Systems**, Computer Organization, Data Structures and Algorithms, Logic Design

EXPERIENCE

Procter & Gamble — Summer 2024
Network Engineer Intern — *Cincinnati, OH*

University of Michigan – CSE — September 2023 – Present
Undergraduate Researcher — *Ann Arbor, MI*
- Conducted research in the Physical Computation Laboratory under the guidance of Professors Tzimpragos and Manerkar, exploring the intersection between race logic and linear temporal logic for system verification
- Analyzed the correctness and performance of using race logic as opposed to temporal logic for system specification

Ford Motor Company — May 2023 – July 2023
Connected Vehicle Software Intern — *Dearborn, MI*
- Developed real-time hysteresis loop counting algorithm in C reducing application's PCM memory use by **98.3%**
- Demonstrated proof of concept for algorithm in Python, adding modifications to prove **100%** correctness
- Created model using MATLAB/Simulink to test algorithm in parallel with other PCM components

Michigan Medicine — June 2022 – April 2023
Software Engineering Technician — *Ann Arbor, MI*
- Automated faculty evaluation report generation enabling a **98%** reduction in labor time utilizing Python
- Collaborated with faculty to determine functional requirements for Mi-TRAC achieving grant of **$150,000**

Tamarack Tower — September 2022 – Present
Web Developer and Server Administrator — *Port Chester, NY*
- Produced pages with HTML/CSS/JavaScript and maintained website receiving **thousands** of visitors annually

PROJECTS & ORGANIZATIONS

MHacks Tech Team — February 2024 – Present
- Built necessary infrastructure for MHacks x Google AI Hackathon *(in progress)*
- Designed efficient *(nlog(n))* ranking system using Pairwise Comparisons for MHacks 17 project judging

UM Autonomous Robotic Vehicle — September 2022 – September 2023
- Implemented A* pathing algorithm in C++ for autonomous robot using occupancy grid
- Designed and developed ROS node in C++ to interpret current and future coordinates using onboard GPS

VictorCrypto VP & Founder — June 2022 – May 2023
- Led the cryptography club at UofM and recruited 60+ members in the first two semesters
- Designed meeting slides to facilitate learning about cryptography

Bubble | *Rust, PostgreSQL, Docker, Git* — May 2022 – August 2023
- Created backend for open source, E2EE location-sharing app using REST API and a relational database
- Designed and developed account access processes with user authentication using Rust and PostgreSQL
- Collaborated on frontend implementing groups feature using MLS protocol in Rust and an SQLite database

TECHNICAL SKILLS

Languages: C++, C, Python, Rust, JavaScript, SQL, HTML/CSS, Verilog, ARM, MATLAB, LaTeX
Technologies: Linux, Git, Docker, Unity, CAD, VSCode, CLion, AWS
Libraries & Tools: React, sk-learn, Flask, numpy, JSON, Pandas, MapReduce, ROS, Regex, jinja, Simulink, Jupyter