

# Gannon Smith

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## EDUCATION

### University of Michigan College of Engineering

Ann Arbor, MI

*BSE in Computer Science Engineering, Minor in Electrical Engineering | GPA: 3.75/4.00 Sept. 2021 – May. 2025*

**Relevant Coursework:** Machine Learning, Foundations of Computer Science, Web Systems, Computer Organization, Data Structures and Algorithms, Logic Design, Electronic Circuits, Discrete Math, Linear Algebra

## EXPERIENCE

### 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 custom features 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**

### University of Michigan – CSE

September 2023 – Present

*Undergraduate Researcher*

*Ann Arbor, MI*

- Investigated the formal relation between race logic and linear temporal logic
- Analyzed the correctness and performance of using race logic as opposed to temporal logic for system specification

### Tamarack Tower

September 2022 – Present

*Web Developer and Server Administrator*

*Port Chester, NY*

- Developed web pages using HTML, CSS, and JavaScript and maintained server for nonprofit organization

## PROJECTS

### Bubble | Rust, PostgreSQL, Docker, Git

May 2022 – August 2023

- Built backend for open source, E2EE location-sharing app using REST API and a relational database
- Designed and developed backend for user authentication process using Rust and PostgreSQL
- Collaborated on frontend implementing groups feature using MLS protocol in Rust and SQLite database

### Word Sequence Prediction | Python

September 2023 – Present

- Developed Shakespearean word sequence prediction model trained remotely on compute cluster
- Utilized recurrent neural networks and long short-term memory frameworks in Python

### Movie Review Sentiment Classifier – Machine Learning | Python, sk-learn

September 2023 – Present

- Developed a machine learning classifier using Python and sk-learn to determine sentiment from movie reviews
- Utilized feature mapping techniques to enhance data representation and improve results

### Wikipedia Search Engine – Web Systems | Python, MapReduce, JavaScript

January 2023 – March 2023

- Built search engine for pages using text and link analysis, enabling modification of weight for pagerank in searches
- Developed backend REST API for application in Python, using parallel data processing with MapReduce

### Instagram Clone – Web Systems | Python, JavaScript, React, Flask, HTML/CSS

January 2023 – March 2023

- Implemented client-side dynamic pages using React, JavaScript, and HTML/CSS and deployed with AWS
- Developed backend REST API using Python and Flask with jinja templating and SQLite database

## TECHNICAL SKILLS

**Languages:** C++, C, Python, Rust, JavaScript, SQL, C#, HTML/CSS, Verilog, ARM, MATLAB, R, Julia, 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