Alan M. Tommy

U.S. citizen | Washington, MI | (586) 675-9696 | atommy@umich.edu | https://www.linkedin.com/in/alan-tommy/

EDUCATION

University of Michigan Ann Arbor- College of Engineering
Bachelor of Science in Engineering, Computer Science – May 2025
GPA: 3.736

Relevant Coursework
Introduction to Operating Systems, Computer Game Design and Development, Web Systems, Introduction to Machine Learning, Software Engineering, Introduction to Computer Security, Data Structures and Algorithms, Statistics and Artificial Intelligence, Programming Paradigms, Data Analytics Tools and Techniques

EXPERIENCE

University of Michigan ROTC- Wargame Digitalization Team Intern (June 2025 - January 2026)

- Worked in a team to develop a first-of-its-kind digital interface for a strategic military simulation.
- Implemented PostgreSQL database, Django backend, and Redis websockets.
- Application successfully supported over 100 concurrent users and is being used to train and evaluate future officers from the Army, Navy, Marine Corps, Air Force, and Space Force.

Michigan Data Science Team – Mining & Analyzing Reddit Team (Fall 2024)

- Collected and processed Reddit data to analyze sentiment in posts and comments.
- Developed and trained a machine learning model using Python's scikit-learn library to classify sentiment and measure its intensity with up to 90% accuracy.
- Extracted insights from data to understand online discourse trends and engagement.

Michigan Datathon Competition – Winner (Winter 2024)

- Collaborated with a 5-person team to analyze large carbon emissions datasets, identifying meaningful trends and developing a data-driven solution to a real-world problem.
- Designed an environmentally and economically sustainable solution using Python (pandas, NumPy).
- Communicated findings and proposal to a panel of judges, securing **1st place among 40+ teams**.

WolvSec Cybersecurity Club – CTF Competitor (Fall 2023)

- Completed Google Cybersecurity Certificate course.
- Competed in Capture The Flag (CTF) cybersecurity challenges, solving real-world security problems.
- Explored topics including cryptography, exploitation, reverse engineering, and penetration testing.
- Engaged with a community of students and professionals to improve security knowledge.

SKILLS

Programming Languages: C++, C, Python, SQL, JavaScript, Visual Basic, C#, R, MATLAB
Tools & Frameworks: Unity, GitHub, Vim, TensorFlow, scikit-learn, Figma, Jira
Software & Systems: Linux/Unix, multithreaded programming, Agile development
Machine Learning: Model tuning, data preprocessing, feature engineering