

# Michael West

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## EDUCATION

### University of Michigan

Ann Arbor, MI

*Bachelor of Science in Engineering in Computer Science*

May 2025

GPA: 3.046/ 4.00

Coursework: Web Systems, Computer Vision, Computer Security, Data Structures and Algorithms

## PROJECT EXPERIENCE

### University of Michigan

Ann Arbor, MI

*Computer Security*

January 2024- April 2024

- Exploited vulnerabilities in applications via Cross-Site Scripting (XSS), Hash Collisions, Padding Oracle Attacks, Reverse Engineering and Stack Exploitation, and Forensic Analysis to learn how to design software defensively

*Web Systems*

August 2023- December 2023

- Implemented static websites with Flask, dynamic pages with React and JavaScript, and a distributed computing system in Python based off MapReduce, culminating in the creation of a search engine utilizing Google's PageRank algorithm

*Music Signal Processing Project Team*

March 2022- April 2022

- Researched music education in Michigan and discovered a lack of access to lesson teachers in lower income areas
- Organized a team of 5 members and managed the development of a Julia application that graded pitch, intonation, and timbre to allow students to see how their sound compared to world class musicians used as a sound model

## LEADERSHIP EXPERIENCE

### MHacks

Ann Arbor, MI

*Sponsorship Coordinator*

January 2024- Present

- Coordinated outreach to various companies including Intel, Aptiv, and Uber, raising over \$50k+ for a two-day event where over 1000 students from diverse backgrounds developed applications to solve real-world problems
- Collaborated with Google to host Google x MHacks AI Hackathon to promote the launch of Gemini 1.5

## ACTIVITIES

### Boston Crusaders Drum and Bugle Corps

Boston, MA

*Seasonal Cast Member- Euphonium*

November 2021-August 2024

- Traveled country for entire summer performing for thousands and competing in Drum Corps International
- Led housing area cleanup efforts, organizing a team of 10 members sweeping hallways, transporting waste, and achieving site-specific tasks while interfacing with school administration to ensure standards and deadlines were met
- Rehearsed for 11 hours a day for 84 straight days in extreme weather conditions with 164 other members

### Michigan Marching Band

Ann Arbor, MI

*Euphonium*

July 2021-Present

- Performed with over 400 other students to entertain 100,000+ fans every home football game and bowl game
- Rehearsed for 10+ hours a week while managing a full courseload

## AWARDS

- College of Engineering Dean's Honor List Fall 2023- Given to students with a term GPA greater than 3.5
- Austin Moore Family Marching Band Scholarship
- Eagle Scout, Troop 75, Columbia, MD

## SKILLS

- *Languages:* C, C++, Java, Python, HTML, CSS, JavaScript, Julia, Matlab, SQL, SAS
- *Libraries:* React, Flask, Pandas, NumPy, PyTorch, Selenium
- *Applications:* Jupyter, Microsoft Office Suite, Google Workspace, GitHub