Michael West

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SUMMARY

Strong communicator and independent learner seeking entry-level Software Engineer roles in mid-August 2025 or later.

EDUCATION

University of Michigan   **Ann Arbor, MI**
Bachelor of Science in Engineering in Computer Science, Minor in Music   *May 2025*

PROJECT EXPERIENCE

University of Michigan   **Ann Arbor, MI**
Computer Vision   *August 2024-December 2024*
- Trained a Very Deep Convolutional Network via PyTorch to identify Magic the Gathering cards
- Implemented object detection using contour-based edge detection, significantly increasing card isolation probability

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 test software, fixing vulnerabilities

Web Systems   *August 2023- December 2023*
- Built a search engine for Wikipedia articles utilizing a MapReduce framework, indexing over 3000 articles
- Engineered a social media platform using a REST API with Flask on the backend and React on the frontend
- Deployed and managed a secure AWS instance of an SQL database

LEADERSHIP EXPERIENCE

MHacks   **Ann Arbor, MI**
Sponsorship Lead   *November 2024-Present*
- Led recruiting campaign via social media, recruitment events, and interviews, achieving team growth of 75%
- Addressed team communication issues by leading bi-weekly standups and weekly sprints, improving engagement

Sponsorship Coordinator   *January 2024- November 2024*
- Secured $50K+ in funds from companies such as Intel and Uber for a two-day hackathon with 650+ participants distributing over $40K in prizes and generating 130+ new software applications

ACTIVITIES

Boston Crusaders Drum and Bugle Corps   **Boston, MA**
Seasonal Cast Member- Euphonium   *November 2021-August 2024*
- Traveled country for three entire summers performing for 100K+ in Drum Corps International

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 showcasing proficient time management skills

SKILLS

- *Programming Languages:* Python, JavaScript, TypeScript, C++, Java, SQL
- *Web Technologies:* HTML, CSS, Svelte, React, Next.js, TailwindCSS, Flask
- *Tools/Libraries:* Git, AWS, Vercel, OpenCV, Pandas, NumPy, PyTorch, Selenium

AWARDS

- College of Engineering Dean's Honor List Fall 2023, Fall 2024-earned by achieving term GPA greater than 3.5
- University Honors Fall 2023, Fall 2024
- Austin Moore Family Marching Band Scholarship
- Eagle Scout, Troop 75, Columbia, MD