

AIDAN M. SZUCH

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EDUCATION

University of Michigan, Ann Arbor, MI

April 2025

BSE in Computer Science (Summa Cum Laude), MSE in Computer Science

Relevant Courses - Cybersecurity, OS, AR/VR, Web, Quantum Computing, Graduate Cryptography, Compilers, Cyber Policy, Advanced SQL, Graduate Network Security, Human-AI Interaction

- Projects**
- Simulated OS handling of multithreaded programs, virtual memory, and file servers in C++
 - Developed programs to parse, analyze, and evaluate code using functional, logic, and meta-programming
 - Implemented attacks against known vulnerabilities in cryptographic, web, and network security
 - Created a customizable VR drumming rhythm game within a team of four students in five weeks*

SKILLS

Programming Languages - C++, Python, C, SQL, HTML, CSS, Javascript, Scheme, Prolog, Matlab, C#

Computing Tools - MacOS, AWS, Flask, UTM, Docker, Unreal Engine, Unity, Azure, IBM Quantum, LLVM

Spanish - Illinois State Seal of Bilingualism in English and Spanish

WORK EXPERIENCE

Truleo, St. Charles, IL

June 2024 - July 2024

Data Science and AI Intern

- Engineered LLM prompts to generate meaningful summaries of police body-cam transcriptions while eliminating sensitive or personal information
- Evaluated modern GPT and Anthropic models on their aptitude for complex and specific summarization tasks

Executive Office of Governor (EOG) Gretchen Whitmer, Lansing, MI

May 2023 - April 2024

Operations Intern

- Analyzed trends progress reports for COO to guide discussion of project statuses and future budget allotments
- Communicated with cabinet directors regarding department goals to maximize efficiency of state spending

Dokkio, San Mateo, CA

February 2023 - May 2023

Product Management Intern

- Met daily with CEO and CTO to discuss project trajectories, UI/UX design, and core product functionality
- Collaborated with 4 colleagues in regular go-to-market meetings focused on expanding customer acquisition strategies, monitoring the health of existing ad campaigns, and defining the key elements of our product and brand

PROJECT EXPERIENCE

University of Michigan Mars Rover Project Team, Ann Arbor, MI

August 2021 - November 2022

Software Branch, Teleoperations Subteam

- Wrote and optimized closed-loop path-planning inverse kinematics control system to assist operation of a robotic arm with six degrees of freedom within a team of four computer science students using version control softwares
- Integrated and tested code with rover and arm hardware in preparation for preliminary and critical design reviews

LEADERSHIP

Chi Psi Fraternity, Ann Arbor, MI

February 2022 - Present

Philanthropy and Service Chair, Resident Advisor

University of Michigan Triathlon Club, Ann Arbor, MI

August 2021 - Present

4x Ironman 70.3 Finisher, 2x Marathon Finisher

Dare2Tri, Chicago, IL

June 2019 - Present

Paratriathlete Guide, Handler, Volunteer, Race2Raise Fundraiser

* Visit <https://websites.umich.edu/~amszuch/project3-498/home/> for more information