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 - Data Structures, Algorithms, Computer Organization, Operating Systems, AR/VR, Cybersecurity, Machine Learning Basics, Information Retrieval, Programming Paradigms, Quantum Computing

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 known attacks to identify 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, Javascript, Scheme, Prolog, HTML, Matlab, C#
Computing Tools - MacOS, Git, VS Code, Xcode, UTM, Docker, Unreal Engine, Unity, Azure, IBM Quantum
Spanish - Illinois State Seal of Biliteracy in English and Spanish

WORK EXPERIENCE

Truleo, St. Charles, IL   *June 2024 - Present*
Data Science and Cybersecurity Intern

- Engineer LLM prompts to generate meaningful summaries of police body-cam transcriptions while eliminating sensitive or personal information
- Experiment with SIEM solutions to broaden product security and improve threat detection

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*
2022 & 2023 Ironman 70.3 Michigan Finisher, 2023 Chicago Marathon Finisher

Dare2Tri, Chicago, IL   *June 2019 - Present*
Paratriathlete Guide, Handler, Volunteer, Race2Raise Donor

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