

Mason Shields

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Education

University of Michigan

Bachelor of Science in Computer Science

Ann Arbor, MI

August 2023-May 2027

- GPA: 3.5 /4.0
- Significant Courses:
 - EECS 388: Intro to Computer Security (A)
 - EECS 485: Web Development and Infrastructure (A-)
 - EECS 493: User Interface Design (A-)
 - EECS 281: Data Structures and Algorithms

Experience

Milieu Bio

Contract Software Engineer

Ann Arbor, MI

May 2025-August 2025

- Engineered a Google OAuth system using Supabase's backend framework, scaling seamlessly across 1000's of users
- Integrated a full CI/CD pipeline into production website deployment using Github Actions and Cloudflare, drastically reducing outages and deployment issues
- Utilized AI coding tools such as ChatGPT and Claude in a pair-programmer format, allowing for performant and maintainable code to be written at a rapid pace

Kresge Hearing Research Institute

Hearing Software Development Intern

Ann Arbor, MI

October 2023-May 2025

- Transitioning MATLAB code from a local service to a hosted platform, allowing the lab to begin work on trialing participants in a new branch of their auditory study
- Collaborated with PhD and graduate researchers to implement consistent experimental procedure lab-wide, ensuring a smooth-running study for participants and lab workers
- Studied human audio processing and aural pattern recognition from a variety of sources, expanding my knowledge base to encompass the fine details of the study

Nebraska Innovation Labs

Software Development Intern

Omaha, NE

June 2024-August 2024

- Learned PHP, Laravel, SQL, and Bootstrap within the first month of employment to quickly be able to contribute production-ready code
- Ported a company data table library from jQuery to React under guidance of a senior developer, greatly improving the control the user had over how data is presented

Technologies

- **Programming Languages:** Python, C/C++, Javascript, SQL, HTML/CSS, MATLAB, C#/.NET, Java
- **Frameworks:** React.js, Laravel, Tailwind, SciPy/NumPy, Supabase, Selenium, Next.js
- **Technologies:** Linux Bash, Git/Github Version Control, Github Actions, Wireshark, AWS, Docker/Kubernetes

Additional Information

- **Certifications:** CompTIA IT Fundamentals+ (see [Credly](https://www.credly.com/certifications/itfplus))
- **Hobbies/Interests:** Retro Console Modification, Piano, Tennis, High-Fidelity Audio, Web Backend Programming, Video Games, Typing