

Joshua Pearlman

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EDUCATION

Michigan Technological University
BS, Computer Science, Minor in Mathematics

Aug 2022 - May 2025 (Expected)
Houghton, MI

WORK EXPERIENCE

Student Mac Support Technician

Sept 2023 - Sep 2024

Michigan Technological University

Houghton, MI

- Enhanced the efficiency and reliability of enterprise OS X systems by providing vital support for legacy infrastructures and spearheading the deployment of new computing solutions and software.

Software Developer

Jan 2024 - Present

Michigan Technological University Aerospace Enterprise

Houghton, MI

- Working on the Software Subteam to help develop, test, and deploy the software that will be used on two separate satellites being developed by the enterprise.
- Developed service-side and satellite side software in C to manage telemetry data transport from the satellite.

SAM Web App Developer

Apr 2024 - Present

Michigan Technological University

Houghton, MI

- Actively working under Michigan Tech Faculty to develop a Web App to act as an interface for the SAM Program which is a form of undergraduate mentoring provided in the Computer Science Department.
- Utilized MySQL, NodeJS, and ExpressJS to develop the database and API for this web application.
- Utilized Javascript, ReactJS, CSS, and multiple npm libraries to develop the frontend webpage.

Student Academic Mentor

Aug 2024 - Present

Michigan Technological University

Houghton, MI

- Facilitating weekly study groups to help students learn and master course material related to systems programming.
- Participating in weekly leadership and mentoring training sessions with other mentors and Michigan Technological University faculty.

RELEVANT COURSEWORK

- CS2321 Data Structures and Algorithms** - Demonstrated independent initiative in Data Structures by comprehensively exploring various data structures in Java; gained an in-depth understanding of their implementation and functionality.
- CS3411 Systems Programming**- A course in UNIX systems programming, focusing on the development of robust software with unrestricted system resource access and fundamental operating system interfaces.
- CS3421 Computer Organization** - Demonstrated comprehensive insight into the architecture and logical frameworks of computing systems, mastering key concepts such as combinational/sequential logic, arithmetic datapaths, and hard-wired control; Utilized C and Assembly for all in-class projects.

PROJECTS

Personal Webpage

<https://joshpearlman.org>

- Designed a comprehensive personal webpage as a centralized showcase for my achievements, projects, and more.
- Employed ReactJS alongwith CSS to construct a robust and interactive web platform.
- Applied CSS Media Queries to create a seamless interface across various devices, thereby improving the multi-platform user experience.

TECHNICAL SKILLS

- Programming Languages and Tools:** Java, JavaScript, C, Web Languages (HTML and CSS).
- Operating Systems:** Windows 10/11, MacOSX, Linux: Fedora, Ubuntu Server, Debian Server, Arch Linux.
- Development Tools, Build Tools, And Libraries:** React Native, ReactJS, IntelliJ, Git, GitHub, NodeJS, npm.

SKILLS & INTERESTS

- Skills:** Data Structures and Algorithms, Operating Systems, AGILE Design, Hebrew Language fluency.
- Interests:** Programming, Rock Climbing, Snowboarding, Piano.