

Ethan Shanbaum

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Experience

Software Engineer @ Mosaik Software

Nov. 2025 – Present

- Contributing to Minefolio, an online platform built on the PERN stack to share Minecraft builds and creations.

Web Developer @ WPI Global Lab

Aug. 2025 – Present

- Developed a community resource website for Plataforma Comunitaria in collaboration with the Puerto Rico Project Center.
- Integrated custom translation functionality for Spanish/English page visitors.
- Leading development of project center website for the Syros, Greek Project Center in WordPress.
- Contributing to Global Lab website revamping by developing dynamic pages focusing on mapping and video recording.

Applied Data Science Research Assistant @ WPI

May 2025 – Aug. 2025

- Collaborated with faculty-lead research team to research how to utilize LLMs for log anomaly detection.
- Developed front-end website in React to allow interaction and visualization of system log data.
- Presented findings at research symposium and accepted at the MIT URTC Conference 2025.

Education

Worcester Polytechnic Institute

Aug. 2022 – Present

- Double Major in Computer Science and Data Science
- GPA: 3.9
- Coursework: Operating Systems, Database Systems, Object Oriented Design, Software Engineering, Data Science

Skills

Languages: Java, Python, JavaScript/TypeScript, Ruby, HTML/CSS

Technology: Git/GitHub, Wordpress, SvelteKit, React, MS Office Suite, PERN Stack, Docker, AWS

Databases: MySQL, OracleSQL, PostgreSQL, Firebase, MongoDB

Other: Project Management and Proposal, Scrum/Agile Development, Communication, Leadership, AI

Projects

Brigham & Women's Hospital Web App (Class Project)

- Created full-stack software tool using PERN Stack for hospital to manage service requests from different departments.
- Designed responsive and interactive front-end components using Tailwind and React.
- Modeled and implemented back-end infrastructure using PostgreSQL and Prisma to store service requests on server.
- Deployed using AWS with Docker container.

Bay Path Website Redesign (<http://baypath.net/web/athletics/index>)

- Redesigned both back-end and front-end layout for the athletics department pages, built with Ruby On Rails.
- Implemented responsive designs for pages using Bootstrap.
- Created MySQL database for storing faculty, athletic events, and related documents.

Te Papa Museum Artificial Intelligence (<https://web.cs.wpi.edu/~rek/Projects/TePapa-Proposal-B24.pdf>)

- Worked alongside the Te Papa Museum in New Zealand in order to provide 3 recommendations of AI-driven technology for increasing visitor engagement and interactivity, both physically and online.
- Conducted interviews with technical experts about artificial intelligence concerns and limitations.
- Analyzed over 1,400 survey responses to understand visitor trends and demographics.

Awards & Recognition

- 1st place, SkillsUSA Computer Programming Competition (District Level, 2022)
- Awarded WPI Dean's List for 5 semesters