

Jenna Tripoli

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EDUCATION

Worcester Polytechnic Institute

M.S. Computer Science | 4.00 GPA

B.S. Computer Science | 3.96 GPA

Minor: Interactive Media and Game Development (Junior Student of the Year)

Worcester, MA

May 2023 - May 2024

Aug 2020 - May 2024

SKILLS

Languages: JavaScript/TypeScript, React.js, SQL, CSS, HTML, Java, R, Kotlin, Python, C, C++

Tools: Git, AWS S3, Unreal Engine 4 and 5, Visual Studio, Android Studio, PostgreSQL, R Studio, Linux

Topics: Full-Stack, UI/UX, Human-Computer Interaction, Game Development, Data Science, Robotics

WORK EXPERIENCE

Software Engineering Consultant

ASL Education Center

Jan 2024 - Present

Framingham, MA

- Contribute to the design and creation of new and innovative online technology for ASL signers.
- Focus on responsive, component-based front-end development with JavaScript, React.js, and CSS.
- Used GitHub Projects to enhance team efficiency and foster collaboration across several time zones.

Student Teaching Assistant

Worcester Polytechnic Institute

Mar 2022 - Dec 2023

Worcester, MA

- Held weekly office hours to answer questions and review topics for courses in database systems (SQL, schema design, and relational algebra) and data analysis (Python, visualization, and statistics).

Full-Stack Technology Development Intern

Optum / UnitedHealth Group

Jun - Aug 2023

Cypress, CA

- Enhanced an insurance claim management portal by implementing a data override system.
- Used Java, Oracle Scripts, SQL, and REST APIs for the back end and JavaScript for the front end.
- Worked with Jenkins for CI/CD, DBeaver and Postman for testing, and Rally for Agile collaboration.
- Regularly presented development progress to non-technical business members of the company.

PROJECTS

ASL Survey Tool

Aug 2023 - Present

- Made a platform for creating and distributing surveys based in American Sign Language (ASL).
- Utilized JavaScript, React, CSS, Python, AWS, and a PostgreSQL database for code development.
- Developed a system that does not rely on written text and only uses video content and visual cues.
- Designed color indicators compliant with WCAG and USWDS contrast and system token standards.
- Conducted an unmoderated user study with 30 Deaf participants to evaluate the tool's usability.

FIRST Robotics Competition Team 294

Jan 2017 - Mar 2020

- Coded PIDs, motion profiling, and vision processing for teleoperation and autonomous routines.
- Designed the driver control system with joysticks, handheld controllers, and on-screen modules.
- Led the Software Sub-Team by organizing tasks and teaching fellow students Java and GitHub.