Jenna Tripoli

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EDUCATION

Worcester Polytechnic Institute **Worcester, MA**
M.S. Computer Science | 4.00 GPA May 2023 - May 2024
B.S. Computer Science | 3.96 GPA Aug 2020 - May 2024
Minor: Interactive Media and Game Development (Junior Student of the Year)

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 **Jan - May 2024**
ASL Education Center Framingham, MA

- Contributed to the design and creation of new and innovative online technology for ASL signers.
- Focused 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 **Mar 2022 - Dec 2023**
Worcester Polytechnic Institute 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 **Jun - Aug 2023**
Optum / UnitedHealth Group 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 - Apr 2024**

- Made an online platform for creating and distributing surveys 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.
- Conducted an unmoderated user study with 30 Deaf participants to evaluate the tool's usability.
- Received an honorable mention for the Provost's MQP Award as one of the top research projects.

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.