Jenna Tripoli

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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.

SKILLS

Languages: JavaScript, SQL, Java, Python, CSS, HTML, C, C++, Typescript, Kotlin, R
Technologies: React.js, Node.js, Git, AWS, PostgreSQL, Docker, Linux, Unreal Engine, Android Studio
Topics: Full-Stack Development, Front-End Development, Robotics, Game Development, Algorithms, Database Systems, Object-Oriented Programming, UI/UX Design, Data Science, Agile

EDUCATION

Worcester Polytechnic Institute   **Worcester, MA**
M.S. Computer Science | 4.00 GPA   May 2023 - May 2024

Worcester Polytechnic Institute   **Worcester, MA**
B.S. Computer Science | 3.96 GPA (High Distinction)   Aug 2020 - May 2024
Minor: Interactive Media and Game Development
Awards: Provost's MQP Award Honorable Mention, IMGD Junior Student of the Year, Dean's List

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.

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.