

Kyle Reinholdtsen

Software Developer

About

Proficient full-stack developer with expertise in web programming, object-oriented design, distributed systems, and machine learning. Thrives in collaborative environments and works effectively with teams to deliver high-quality software.

Education

06/2021–12/2023

B.S. Computer Science & Engineering, *University of Washington*, Seattle

- **Classes:** Distributed Systems, Operating Systems, Algorithms, Compilers, Machine Learning, Artificial Intelligence, Software Engineering, Computer Vision, Programming Languages, Systems Programming, Database Systems, Interaction Programming.
- **GPA:** 3.88 (Cum Laude, Dean's list).

Experience

01/2022–03/2023

Software Developer, *Husky Robotics*, University of Washington, Seattle

- Developed the mission control website for operating the team's rover using JavaScript, React.js, and Redux.
 - Created UI elements for displaying the rover's cameras and telemetry data (position, power, and velocity).
 - Implemented a 3D rendering of the rover, dynamically updated in real-time using telemetry data.
- Developed a Unity simulator which emulates the rover's cameras, motors, wheels, and sensors in a 3D virtual environment.
 - Enabled user-controlled orbiting around the rover using intuitive mouse controls.
 - Added functionality to configure intrinsic camera parameters within the simulator for enhanced simulation accuracy.

Projects

09/2021–12/2021

MuseShare

- Built an online music sharing website for discovering and interacting with indie artists.
- Designed and developed the user interface using React.js, ensuring performance across both desktop and mobile devices.
- Used Firebase for database management and user authentication.

09/2023–12/2023

MCQuest

- Created an online multiplayer game within Minecraft where players can explore a fantasy world, complete quests, slay enemies, and upgrade their character.
- Deployed a remote server which players can connect to with a default Minecraft client.
- Developed server-side game logic using Java such as physics calculations, item and skill behavior, and data persistence.

Skills

Languages

- Java, JavaScript, HTML, CSS, Python, C, C++, C#, SQL.

Technologies

- React.js, Node.js, Unity, PyTorch, Linux, Git.