Alden Roy

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Education

Oregon State University Corvallis, OR
Bachelor of Science in Computer Science, Minor in Statistics *Sep. 2021 – June 2025*
GPA — 3.93

Experience

Information Technology Intern June 2023 – Present
AVANGRID Renewables *Portland, OR*

- Assisted the IT team at AVANGRID Renewables during the summer of 2023 in various projects and initiatives
- Supported the implementation and maintenance of IT systems, including software infrastructure in Python.

Undergraduate Learning Assistant Sep. 2022 – March 2023
Oregon State University *Corvallis, OR*

- Communicate with professors about student needs
- Lead weekly labs to facilitate student learning for 50 students each quarter
- Grade presentations, assignments, projects, for 50-100 students.

Coding Instructor June 2022 – Sep. 2022
Coding With Kids *Portland, OR*

- Taught students programming fundamentals and basic design principles
- Facilitated short project development throughout week-long courses for students ages 5-13

Projects

Small Shell | *C, Linux, Operating Systems, Git* Jan. 2023 – March 2023

- https://github.com/aldenroy/CS344/tree/main/program3
- Built an interactive command line shell that utilizes form and exec functions to run commands
- Supported foreground/background process execution, I/O redirection, and signal handling

Corvallis Art Gallery | *JavaScript, SQL, MySQL, Node.js, CSS, Git* Jan. 2023 – March 2023

- Developed a full-stack web application using Node.js to serve and using MySQL as the database management system
- Implemented CRUD techniques to allow users to input data for a mock art gallery
- Implemented techniques that facilitated complex relationships between patrons, sellers, and different art pieces in a hypothetical setting.

Picross Board Game | *JavaScript, HTML, CSS, Node.js, Git* April 2022 – June 2022

- Implemented a web-based logic game that allowed user interaction with the game board.
- Created a board checker algorithm to determine if the current state of the board was correct
- Used Node.js to facilitate the backend of the project

Technical Skills

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, R, MASM x86 Assembly
Frameworks: Node.js, Express.js, Jest, Cypress
Developer Tools: Git, GitHub, MySQL, VS Code, Visual Studio, PyCharm, Jupyter Notebook, GDB Debugger, CI/CD
Libraries: Pandas, NumPy, Matplotlib