Alden Roy

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EDUCATION

Western Oregon University — Monmouth, OR
Bachelor of Science in Computer Science, Double Minor in Mathematics and Data Analysis — *June 2025*
Track and Cross Country Athlete

GPA — 4.00

EXPERIENCE

Cloud Engineer Intern — June 2024 – Present
AVANGRID Renewable — *Portland, OR*
- Ported script to python to deploy on AWS Lambda to improve efficiency of dashboard covering 150+ NE counties.
- Currently working with Amazon Web Services tools, such as EC2, EFS, and S3. Extended through school year due to great performance.

Full Stack Developer Intern — June 2023 – August 2023
AVANGRID Renewables — *Portland, OR*
- Worked to create a dashboard for 50+ employees, using Angular, Django, and SQL.
- Developed a new database version for the Application Maintenance page, as well as created a new API in Django.

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.

PROJECTS

AVANGRID Employee Dashboard | *SQL, Django, REST Api, Angular, Oracle* — June 2023 – August 2023
- Created a new dashboard to allow the management of employee roles, permissions, and employees
- Used an Oracle back-end database, with over 50 employees, to facilitate the creation and alteration of employee specs in the dashboard
- Used Django and REST API to facilitate CRUD operations with the dashboard

AVANGRID Storm Mode | *Bash, Python, AWS Lambda* — June 2024 – present
- Worked on porting a bash script to Python for the storm mode application which shows the storm risks for over 10,000 people.
- Used the ported script to create an AWS Lambda function to run the application serverlessly to lower overhead and decrease costs.

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

Wolfit | *Python, Flask, Redis, PythonAnywhere, Git, RabbitMQ, MongoDB* — Jan 2024 – Mar 2024
- Implemented a reddit clone for our school and created microservices for it.
- Used Redis for in memory storage for a portion of the project.
- Deployed the project to the cloud using PythonAnywhere for hosting.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, C#/.NET
Frameworks: ASP.NET, Node.js, Express.js, Angular.js, Django, REST Api, Bootstrap, Redis
Developer Tools: Git, MySQL, SQLDeveloper, GDB Debugger, CI/CD, MongoDB, RabbitMQ, PythonAnywhere
Libraries: Pandas, NumPy, Matplotlib
Cloud Tools: Amazon Web Services(EC2, EFS, S3), Docker