



Adam Henry

541-410-7264 | adamhenry416@gmail.com | github.com/ajh416 | [Portfolio](#)

EDUCATION

Oregon State University

Bachelor of Science in Computer Science

Corvallis, OR

September 2021 – June 2025

EXPERIENCE

Capstone Project, Imaging / AI

Oregon State University

September 2024 – Present

Corvallis, OR

- Developed and trained a machine learning model on 10,000+ SEM images of graphite for stress analysis
- Developed a desktop graphical interface (C++) for researchers to interact with the ML model and adjust images
- Implemented a CI/CD pipeline using GitHub actions for automatic compiling and release
- Researched additional imaging techniques to detect cracks and other indicative features of material failure

Summer Grounds Crew

Bend-La Pine School District

July 2025 – Present

Bend, OR

- Constant teamwork and coordination. Supervising small crews and working independently of supervision.
- Various maintenance tasks, mowing, weed-whacking, etc.

PROJECTS

Wildfire Map | *JavaScript, HTML, CSS, Node.js*

July 2024 – Present

- Developed a full-stack web application using JavaScript, HTML and CSS
- Visualized wildfires and information about them, such as satellite detected heat points
- Deployed using nginx on a DigitalOcean VPS

Ray/Path Tracer | *C++, ImGui, GLFW*

December 2023 – June 2024

- Ray/Path tracing application that can render with either the CPU or GPU
- Achieves over 60 frames per second when rendering over 1000 triangles
- Interactive interface using ImGui to allow runtime modifications to the current render

Flashcard Web App (for 24 hour Hackathon) | *Next.js, Typescript*

April 6, 2025

- Flashcard website for repetitive training, as a free/no sign up alternative
- Integrates AI to parse documents and automatically create flash cards
- Uses Google OAuth flow to allow saving of cards to Google Drive

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, Java, HTML/CSS, SQL

Frameworks: React, Node.js

Developer Tools: Git, Docker, GitHub Actions, GCS & AWS, Neovim, VS Code, Visual Studio

Libraries: OpenCV, ImGui, pandas, NumPy, Matplotlib

My hobbies include programming, hiking, photography, and learning about radios.