Adam Henry

541-410-7264 | adamhenry416@gmail.com | github.com/ajh416 | Portfolio

EDUCATION

Oregon State University   Corvallis, OR
Bachelor of Science in Computer Science   *September 2021 – June 2025*

EXPERIENCE

Capstone Project, Imaging / AI   September 2024 – September 2025
Oregon State University   *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   July 2025 – Present
Bend-La Pine School District   *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 droplet

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

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

TECHNICAL SKILLS

Languages: C/C++, C#, Python, JavaScript/TypeScript, Java, SQL, HTML/CSS
Frameworks: React, Next.js, Node.js
Developer Tools: Git, Docker, GitHub Actions (CI/CD), Google Cloud Platform, AWS, Linux, VS Code, Visual Studio
Libraries & APIs: OpenCV, ImGui, NumPy, pandas, Matplotlib, PyTorch, TensorFlow, REST APIs