ALDEN HAASE

SOFTWARE ENGINEER

github.com/aldenhaase

aldenhaase@gmail.com

aldenhaase.com

EDUCATION

Colorado State University

BS in Computer Science | 2020-2023
Software Engineering Concentration
3.7 GPA (Expected)

BA in English | 2016-2019
Minor in Tech & Sci Communication
Rhetoric Concentration
3.0 GPA

WORK EXPERIENCE

Teaching Assistant | CSU | Fort Collins, CO

Spring 2023 | Machine Learning Foundations
- Assisted students in implementing various models, from a basic knn to a minimal neural net.
- Graded student's work

Teaching Assistant | CSU | Fort Collins, CO

Fall 2022 | Discrete Structures and Their Applications
- Assisted in teaching recitations in which students learned about discrete math through explorations in Python.

Barista | Mugs Coffee Lounge | Fort Collins, CO

2019 - 2020 | Barista / Waiter / Bartender

PROFICIENCIES

Languages

- JS/TS
- C++
- C
- Go
- Java
- Python/Numpy
- Bash
- Scala

Technologies

- Git
- Angular
- React
- Cloud Computing
- NPM
- Linux Shell
- Cmake
- Automated Testing

PERSONAL PROJECTS

*All project are open source and available on my Github.
*Write ups are available on my personal website.

Lystr | 2020-2070

- Lystr is a collaborative list building web app
- Angular frontend
- Go backend
- Running on Google's Cloud Infrastructure
- Full Feature and custom CI/CD pipeline
- https://www.lystr.app

USB Keyboard | 2019-2021

- Designed and assembled custom PCB within strict dimensionality constraints
- Wrote custom LED driving and key handling firmware.
- Overcame processor clock speed limitations in LED buffer read/write code.
- Programmed 32u4 directly with Atmel Ice

ACADEMIC PROJECTS

Vision Based Drum Machine

2021 | Operating Systems
- Wrote change detection algorithm in C++
- Interfaced with ALSA, V4L2, and SDL
- Kept latency under 15ms on Pi Zero
- Handled DMA buffers directly

Route Planning Web App

2022 | Software Engineering
- Fully immersed in Agile development - team of 4
- Scrum | Code Reviews | Clean Code | Reports
- Maintained high test coverage for entire project
- Complied with client API spec, including latency requirements
- Implemented front end using React