

almond Heil (/ˈhaɪl/)

I'm interested in server maintenance and developing user-facing utilities, and looking for a post-bachelor's position.

✉ contact@almdra.dev
🏠 almdra.dev
🔄 github.com/almondheil

Education

Grinnell College Computer Science, B.A.
Grinnell, IA Aug. 2021 – May 2025 (expected)

- 3.808 GPA
- Coursework including Operating Systems, Parallel Programming, and Theory of Computation
- Dean's List F21, F22, S23, F23, and S24 semesters

Selected Experience

Grinnell College CS Department Grinnell, IA
Teaching Assistant, various courses Jan 2023 – Present

- **Built an understanding of teaching** by mentoring both introductory and advanced CS courses

Los Alamos National Labs, HPC-SYS Remote
Systems Undergrad Intern Aug 2024-Present

- TODO something about making ochami work good
- TODO something about managing larger systems

Los Alamos National Labs, HPC-DO Los Alamos, NM
Supercomputer Institute Student Jun-Aug 2024

- Designed, built, and **maintained a cluster** of 10 nodes
- Learned to operate cluster from the ground up, progressing from **manual to automated administration**
- Explored containerizing the Cray Programming Environment for the Programming Environments team

Los Alamos National Labs, XCP-DO Los Alamos, NM
Parallel Fellowship Student Jun-Aug 2023

- **Developed a one-sided MPI algorithm** for particle transport in lab testing code Branson

Los Alamos National Labs, T-6 Los Alamos, NM
Computational Biology Undergrad Intern Jun-Sep 2022

- Studied **infection time inferral** from phylogenetic trees

Technical Skills

📋 Linux · Ansible · Slurm
OpenCHAMI · Docker · MPI

🔧 Git · Bash · Vim · SSH

🔗 C · Python · Rust
Racket · Haskell · Java

Favorite Projects

give-take Grinnell

- User-to-user **file transfer** built for school CS network
- Inspired by 'give' utility at Los Alamos National Lab
- **Skills:** TCP networking, file serialization, daemons

ftag Personal

- Arbitrary **file tagging** intended for photo libraries
- **Skills:** Rust, databases, argument parsing

Hobbies

THEATRE Stage management
Sound design

ART Origami (esp. modular)
Pixel art
Tabletop roleplaying game (TTRPG) design