almond Heil (/ˈhaɪl/)

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

✉ contact@almendra.dev
⌂ almendra.dev
○ github.com/almondheil

Education

Grinnell College   Computer Science, B.A.
Grinnell, IA   Aug. 2021 – May 2025 (expected)
- 3.870 GPA, 4.000 Major GPA
- Coursework including Operating Systems, Parallel Programming, and Programming Language Theory
- 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-OPS   Remote
Systems Undergrad Intern   Aug 2024-Present
- Contributed to the development of **Ochami**, a novel cluster **management infrastructure**

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
  Ochami · 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

~almond