

# 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](mailto:contact@almdra.dev)
- 🏠 [almdra.dev](http://almdra.dev)
- 🔄 [github.com/almondheil](https://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, CS 161 and 213 Jan 2023 – Present
- **Built an understanding of teaching** foundational programming and operating systems
  - Acted as a **resource for student learning** during class sessions and weekly mentor sessions

- 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
- Explored **one-sided MPI** communication paradigms
  - **Developed a new algorithm** for particle transport in Branson, a lab testing code for radiation transport

- Los Alamos National Labs, T-6** Los Alamos, NM  
Computational Biology Undergrad Intern Jun-Sep 2022
- Studied **inferring HIV infection times** based on 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