# Arbor Garnett

+1 (612) 607-9200 • arborgarnett@gmail.com

## Education

**University of Minnesota Twin Cities** **Minneapolis, Minnesota**

Pursuing a Bachelors of Science in Computer Science, GPA: 3.7, Deans List Fall 2025, Dean's List Spring 2026 2024-2026

**Post Secondary Enrollment Options (PSEO)** **Saint Paul, Minnesota**

Bethel University and North Hennepin Community College, GPA: 3.5 2022-2024

## Technical Skills

Git • C • JavaScript • Java • Python • Go • Microcontrollers • Code Review • Linux • CI/CD Systems • Github • Github Actions
Docker • Podman • K3s Kubernetes • Amazon EC2 • Static Site Generators • Performance Profilers • Nix • Agile • Nginx • SIMD

## Projects

**Napari Hub** **July 2026 - Current**

- Reviewed PRs by other contributors, providing feedback using Github
- Added a fuzzy search and user interface fixes in a Python Static Site Generator (SSG)

**Association for Computing Machinery UMN Website** **December 2025 - Current**

- Designed and maintained the ACM UMN Student Chapter website using the Zola Static Site Generator (SSG)
- Set up CI using Github Actions, Docker, and Forgejo Actions to test builds and update the site

**Association for Computing Machinery UMN Door Sensor** **February 2026 - Current**

- Designed a way for the members of our student organization to check if people are hanging out in our club room
- Set up CI unit testing and automatic updates and documented project organization and hardware setup

**Terra Packaging** **November 2025 - Current**

- Contributed 5+ packages to Terra, a community Fedora Linux package repository by Fyra Labs

## Coursework

**Special Topics in Computer Science: Linux Kernel** **Spring 2026**

- Made modifications to the Linux Kernel, including implementing a system call and block device
- Worked with patch-based workflows, learning how to fix commit history and write Kernel-style Git commit messages
- Did code review on peer's submissions and responded to feedback on patches, iterating to fix issues

**Program Design and Development** **Fall 2025**

- Helped classmates understand collaboration using Git and Git remotes, and was invited back as a TA

**Machine Architecture and Organization** **Spring 2025**

- Used SIMD optimizations, concurrency, and parallelism for low-level class optimization project
- Went beyond the required 3.5x speedup and got a 120x speedup with better asymptotic growth
- Used the flamegraphdiff flame graph performance profiler to find hot paths and performance bottlenecks

## Organizations

**Gopher Graphics** **June 2026 - Current**

- Organized officer meetings and planned student-led workshop schedule, advertising ahead of time
- Created student organization website for club information and graphics demos and set up CI test for accessibility issues

**Association for Computing Machinery UMN Student Chapter** **November 2024 - Current**

- Organized and led events and meetings as an officer, taking notes and publishing them to our website
- Presented on programming environments in a Unix/Linux programming lecture series
- Managed server configurations and virtual machine allocation for members using NixOS, Proxmark, and VirtManager
- Maintained our Nginx and Caddy configurations for our servers and website

**MinneHack 2026** **Febuary 2026**

- Hosted MinneHack 2026, a 24 hour hackathon
- Mentored students and other attendees, giving feedback and help with technical challenges

## Work Experience

**UMN TA: Program Design and Development** **September 2026 - Current**

- Helped students understand Git, Git remotes, SSH, Github Actions, Issues, and Pull Requests, and OOP Design Patterns