

Mason Rosenau

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EDUCATION

Oregon State University

Sept. 2021 – June 2025

Bachelor of Science in Computer Science — 4.0 GPA

Corvallis, OR

- **Awards:** Drucilla Shepard Smith Scholastic Awardee (3x), College of Engineering Dean's List
- **Coursework:** Computer Architecture, Operating Systems II, Computer Organization and Assembly Language, Parallel Programming, Translators, Mobile Software Development, Computer Graphics, Analysis of Algorithms

EXPERIENCE

Software Engineering Intern

June 2025 – Present

Garmin

Salem, OR

DevOps Engineering Intern

Apr. 2024 – Sept. 2024

Intel Corporation

Hillsboro, OR

- Reduced the time to deploy and update infrastructure on regression testing platforms with Python automation
- Removed the use of **13** secrets in client-server architecture codebases using environment variables and SFTP
- Setup and automated MySQL database transfers to ensure a more **up-to-date** development environment
- Implemented in-browser binary downloads, reducing the previous workflow time by **over 90 percent**
- Implemented the initialization of multiple registers in **C firmware** according to design team specifications
- Coordinated with lab technicians to help setup test platforms with the next generation of silicon

Equipment and Safety Officer

Sept. 2022 – Apr. 2024

Oregon State University Archery Club

Corvallis, OR

- Prioritized **safety protocols** while running active archery ranges and conducted regular equipment maintenance
- Managed club inventory and ordered archery equipment according to club needs and **finances**

Cashier and Front-end Clerk

June 2023 – Feb. 2024

Safeway

Corvallis, OR

- Expedited customers' shopping experiences during **high-traffic** periods by managing self-checkout machines
- Opened and closed the store in a manner that fulfilled **managerial standards**

PROJECTS

HempDB (Senior Capstone) | *Django, LeafletJS, Redis* | [🔗](#) [🔗](#)

Oct. 2024 – June 2025

- Lead a team of 6 developers as **project manager** working on OSU's Industrial Hemp Stakeholder Database
- Implemented a map of **over 5,000 companies** featuring heatmaps, filtering, caching, and automatic geocoding
- Created an administrator email notification system to expedite the approval of pending changes

Chart Builder Test Suite | *Cypress, GitHub Actions, Jest* | [🔗](#) [🔗](#)

June 2023

- Wrote end-to-end tests for a web application by **simulating user interaction** using Cypress
- Constructed a **CI/CD pipeline** using GitHub Actions to ensure an **errorless build and deployment** process
- Focused on a **user-centered** testing philosophy while collaborating with teammates using GitHub

Small Shell | *C, UNIX* | [🔗](#) [🔗](#)

Apr. 2023 – May 2023

- Developed a shell to handle UNIX **command line** functionalities using signal handling, file I/O, and C strings
- Learned complex program flow and the importance of memory and process management

OTP Encryption & Decryption | *C, Sockets, Ports, Key Generation* | [🔗](#)

May 2023 – June 2023

- Built a client-server application that can concurrently encrypt and decrypt text using one-time pad encryption
- Learned more about client-server relationships, concurrency, and the importance of verifying connections

Hobby Websites | *Django, Cloudflare, HTML, CSS, JavaScript, FastHTML* | [🔗](#)

May 2023 – Present

- Various websites I've created including little notes for my partner, a website for our wedding and registry, and various math games and tools, all hosted on my Raspberry Pi

SKILLS & INTERESTS

Languages: Python, C, C++, Kotlin, Assembly (x86, MIPS, AVR), HTML, JavaScript, Bash

Tools: Docker, GitHub Actions, Cloudflare, Vercel, Django, Flask, Redis, MySQL, SQLite, GCP

Personal Interests: Gaming, MMA, Tennis, Freestyle Drone Flying, Video Creation, Strongman, Photography