

Will Garrison

(360)391-9285 contact@vvill.dev <https://vvill.dev>

Education

- **BS, Computer Science**; Oregon State University (Corvallis, OR) June 2025
 - (Adv.) Web Development, Databases, Networks, Software Engineering (1 & 2), Technical Writing, Data Structures, Algorithms, Operating Systems (1 & 2), Parallel Programming, Assembly, Graphics, Shaders

Projects

- **Crowdsourced Resume Feedback Website** | *React, OAuth, SQL, REST API* | [Roast.VVill.dev](#) | [Github](#) 2024
 - Lead a team in developing a React based full stack webapp with a REST API
 - Integrated Disqus Community Management and interfaced with Dropbox using OAuth2
 - Utilized an SQLite database for efficient and persistent storage of generated pdf links
- **Shortlinks (CLI)** | *Go, Bun, SQL, REST API* | [A.VVill.dev](#) | [Github](#) 2024
 - Created a Bun webserver and API for redirecting URLs using an SQL database and HTTP status codes
 - Built a command line interface for link creation using Go, and a web front end styled with Pico.css
- **Portfolio Site** | *SSG, HTML, CSS, JS* | [VVill.dev](#) | [Writeup](#) | [Github](#) 2023
 - Wrote a responsive website with HTML, CSS, and JS utilizing Media Queries and Flexbox
 - Managed configuration of Hugo's static site generation with modular files for efficient DevOps
 - Configured DNS and Email Routing through Cloudflare and proxied traffic using Caddy
- **Real-time Online Party Game** | *WebSockets, Express, NodeJS* | [Newsie.VVill.dev](#) | [Github](#) 2022
 - Worked in a team to develop a full-stack synchronous party game using Github and OOP principles
 - Coordinated HTTP requests with Express.js and utilized WebSockets for continuous network transactions
 - Implemented error handling and input validation with JavaScript to ensure server uptime and good UX
- **Jewelry Store Website** | *Python, CMS* | [BonitaRoseJewelry.com](#) 2021
 - Wrote Python scripts to migrate images and information on over 200 products from Etsy
 - Built storefront with Square Online CMS increasing total profit margins by 6.5%

Leadership

- **Leadership Liaison for the Engineering Student Council** 2023-Now
 - Instituted Office Hours to share expertise and development opportunities between more than 50 engineering clubs
 - Collaborate with the Leadership Academy to amplify academic opportunities in the College of Engineering
- **Administrative and Finance Officer of the Residence Hall Association** 2022-Now
 - Manage \$100,000 budgets across 19 different spending accounts
 - Schedule regular meetings with Housing and Dining administrators to amplify residents' voices
- **Officer of 4 Student Clubs** 2022-Now
 - Co-founded the General Engineering Club to facilitate students' multidisciplinary side-projects
 - Help officer teams with fundraising, event planning, and group collaborations for all clubs
 - Organize student teams to foster mutual learning and develop collective leadership skills

Skills

- **Web Development Skills**
 - HTML, CSS, JS, React, Node, SQL, PHP
 - WebSocket, Express, Jest, Cypress, Hugo
 - NginX, Caddy, Cloudflare, Wireshark
- **System Level Programming**
 - C, C++, Rust, Golang, Java, Python
 - Unix, Linux, CLI, Bash, Vim, Systemd
 - OpenMP, OpenCL, CUDA, SIMD, MPI
 - OpenGL, GLSL, GLUT, GLM
- **Project Management**
 - TDD and CI/CD
 - Version Control with Git and Github
 - Agile and Waterfall PM Methodologies
 - Software Design Patterns and Flowcharts
- **Soft Skills**
 - Leadership and Team Management
 - Clear and Effective Communication
 - Self Motivated and Always Learning