

Will Garrison

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

Education
















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

**in progress*

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, Go, Java, Python
 - Unix, Bash, Vim, Terminal Environment
 - 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

Projects

- **Portfolio Site**        | [VVill.dev](https://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
- **3D Heightmap Mesh Editor**   | [Writeup](#) | [Github](#) 2023
 - Created a dynamic heightmap mesh generation algorithm and editor in C++ with OpenGL
 - Wrote a detailed project analysis with feature visualizations and concept research results
 - Overcame bugs in library code by implementing missing features and developing workarounds
- **Real-time Online Party Game**     | [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**   | [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
 - Give expertise and development opportunities to 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
 - 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