Will Garrison

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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), Assembly, Graphics, Shaders*, Vector Calc, (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* | *Writeup* | *Github*
    - Wrote a responsive website with HTML, CSS, and JS utilizing Media Queries and Flexbox *2023*
    - 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*
    - Created a dynamic heightmap mesh generation algorithm and editor in C++ with OpenGL *2023*
    - 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** ⑤ 🔲 🔳 Ⓙⓢ | *Newsie.VVill.dev* | *Github*
    - Worked in a team to develop a full-stack synchronous party game using Github and OOP principles *2022*
    - 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*
    - Wrote Python scripts to migrate images and information on over 200 products from Etsy *2021*
    - 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