Will Garrison

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Education

- **BS, Computer Science**; Oregon State University (Corvallis, OR) *(expected)* **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
  - NginX, Caddy, Cloudflare
- **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*
  - Completely hand-written, unique HTML CSS and JS *2023*
  - Managed configuration of Hugo's static site generation with modular files for efficient DevOps
  - Wrote in depth technical project analysis' and blog posts
- **3D Heightmap Mesh Editor** | *Writeup* | *Github*
  - Dynamic heightmap mesh generation in C++ with OpenGL *2023*
  - Wrote comprehensive project analysis with feature visualizations and concept research results
  - Overcame bugs in library code with quick problem solving skills
- **Real-time Online Party Game** | *Newsie.VVill.dev* | *Github*
  - Utilizes WebSockets for performant and reliable network transactions *2022*
  - Implemented user-friendly input validation that ties in with server-side game state management
  - Worked in a team to combine strengths of front-end and back-end development
- **Jewelry Store Website** | *BonitaRoseJewelry.com*
  - Wrote python scripts to migrate product information and images from Etsy *2021*
  - Set up store page with Square Online CMS for user-friendly content updates

Leadership

- **Leadership Liaison for the Engineering Student Council** *2023-Now*
  - Provide resources and expertise to more than 50 engineering clubs
  - Work 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
  - Regularly meet 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
  - Helped officer teams with fundraising, event planning, and group collaborations for all clubs
  - Work with many students in teams to learn from each other and grow as leaders