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, 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*
  - Responsive website hand-written with HTML CSS and JS   *2023*
  - Managed configuration of Hugo's static site generation with modular files for efficient DevOps
  - Configured DNS through Cloudflare and proxied traffic using Caddy
- **3D Heightmap Mesh Editor** ☁ ☁ | *Writeup* | *Github*
  - Dynamic heightmap mesh generation and editing 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 tied 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*
  - 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