

# Will Garrison

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## Education

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- **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

## Projects

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- **Portfolio Site**      | [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

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- **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

## Skills

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- **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