

Nathan Hutton

801-560-3611 | nathan.d.hutton@proton.me | linkedin.com/in/nathanhutton | github.com/nathan-hutton | [YouTube](https://www.youtube.com/channel/UC833333333333333333333333)

EDUCATION

University of Utah <i>M.S. Computer Graphics & Data Visualization</i>	Dec. 2025 <i>GPA: 4.0</i>
Westminster University <i>B.S. Computer Science, Minor in Applied Mathematics</i> <ul style="list-style-type: none">Awarded outstanding computer science student of the year	May 2024 <i>GPA: 4.0</i>
Salt Lake Community College <i>A.S. General Education</i> <ul style="list-style-type: none">Earned degree while in high school	May 2021 <i>GPA: 4.0</i>

EXPERIENCE

Software Engineer Intern <i>Flight Safety International</i> <ul style="list-style-type: none">Helped integrate Phidgets API with RACKtangle hardware for real-time flight simulation I/O in C++Worked exclusively in Windows and Visual Studio	May 2025 – Aug. 2025 <i>Broken Arrow, OK</i>
Software Engineer Intern <i>Idaho National Laboratory</i> <ul style="list-style-type: none">Debug and reformat C++, C, and Python codeConvert Matlab test harness to PythonConfigure CI/CD pipelinesImplement, refactor, and debug GUIsWorked exclusively on Linux	Feb. 2023 – May 2024 <i>SLC, UT</i>
Computer Science Tutor/TA <i>Westminster University</i>	Aug. 2022 – Dec. 2023 <i>SLC, UT</i>
IT Technician <i>Westminster University</i>	Aug. 2021 – May 2024 <i>SLC, UT</i>

PROJECTS

Boids Flocking Simulation C++, OpenGL, ImGui <ul style="list-style-type: none">A simple ruleset by Craig Reynolds leads to complex flocking behaviorExtensive customization and debugging implemented with ImGui	GitHub Video
Solar System C++, OpenGL <ul style="list-style-type: none">Dynamic physics, shadow maps, bloom, and verlet numerical integration	GitHub Video
Volme Renderer C++, OpenGL, Glui <ul style="list-style-type: none">Ray marching in GLSL with modifiable transfer functions	GitHub Video
AQI Visualization Javascript, D3, JSON <ul style="list-style-type: none">Interactive visualization for Utah's air quality indexI made 63% of all commits	PLACEHOLDER GITHUB Video
Squibblets C#, Unity, Firebase, AGILE <ul style="list-style-type: none">4-person team project. I made the gameplay loop, online leaderboard, UI, and 54% of all commits	GitHub
Mass Spring System C++, OpenGL, Eigen <ul style="list-style-type: none">Simulate a mass spring system made up of 8,000 tetrahedrons in real time	GitHub
Ray Tracer Python <ul style="list-style-type: none">No reliance on libraries, everything made from scratch	GitHub

TECHNICAL SKILLS

Languages: C/C++, Python, Java, C#, JavaScript, HTML/CSS, Latex
Developer Tools: Linux, Git, Docker, Vim, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: OpenGL, NumPy, pandas, ImGui, Matplotlib, Eigen