

Jessen Forbush

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EDUCATION

B.S. Software Engineering

Brigham Young University — Idaho

Anticipated: July 2026

Rexburg, Idaho

- Pursuing a minor in Computer Science and certificates in Software Design, Quality Assurance, and Database
- Earned the BYU-Idaho Scholarship for maintaining a [3.95 GPA](#)

TECHNICAL SKILLS

- Programming Languages:** [C++](#) (Advanced: OpenGL, simulation physics, algorithm optimization), [Python](#) (Proficient: data structures, automation, script development), [C#](#) (Proficient: OOP, applications, code analysis)
- Methodologies:** [Object-Oriented Design](#) (class hierarchies, encapsulation), [Test-Driven Development](#) (unit testing, verification), [Functional Programming](#) (Basic: pure functions, immutability), [System Architecture](#) (component design)
- Web Technologies:** [JavaScript/HTML/CSS](#), [React](#) (components, basic state management), [Node.js](#) (server-side fundamentals), [Git/GitHub](#) (version control, repositories, collaborative development)
- Cloud Services:** [Vercel](#) (deployment, hosting, continuous integration), [Supabase](#) (authentication, database connectivity), [API Integration](#) (Basic: RESTful services, data exchange fundamentals)

PROJECTS

- M777 Howitzer Simulator** — Developed a precision artillery simulation system modeling complex ballistic trajectories and environmental factors, implementing mathematical algorithms to ensure accuracy in trajectory calculations and physics interactions applying [C++](#) and [OpenGL](#)
- Apollo 11 Simulator** — Engineered a high-fidelity lunar landing simulation implementing real-time physics calculations and atmospheric variables affecting trajectory, leveraging [C++](#) and [OpenGL](#) for optimized performance while maintaining computational accuracy
- Nebula Fighters** — Collaborated with teammates to develop a space-themed arcade game using the [Godot Engine](#), contributing to gameplay mechanics and graphic implementations while maintaining consistent version control through GitHub
- Sketchy** — Built an intuitive [iPadOS](#) drawing application in [Swift](#), incorporating responsive touch controls and efficient drawing mechanics while focusing on user experience and interface design

EXPERIENCE

Online Grader — Software Engineering Department

BYU—Idaho

September 2023 — Present

Rexburg, Idaho

- Conduct systematic code reviews of [C#](#) programming assignments, implementing standardized quality control processes to evaluate algorithm efficiency and code structure
- Utilize [GitHub](#) and [Visual Studio Code](#) to provide detailed technical feedback, identifying potential optimizations and suggesting implementation improvements to enhance student project outcomes
- Collaborate with faculty to apply assessment criteria aligned with industry best practices, ensuring students gain practical software engineering skills applicable to real-world scenarios

Concrete Laborer

Northwest Concrete & Landscape LLC

Every Summer from 2018 — 2022

Caldwell, Idaho

- Executed complex construction tasks with a [5+ person team](#), meeting rigid quality standards and strict project timelines in a fast-paced construction environment
- Developed systematic approaches to troubleshoot on-site challenges, identifying [efficient solutions](#) to unexpected material and equipment constraints
- Established effective communication protocols within a diverse team during high-precision concrete installations requiring [exact timing and coordination](#)

VOLUNTEER EXPERIENCE

- Missionary Service, Brazil & Idaho (2023) — Developed [Portuguese fluency](#), led community service initiatives
- Eagle Scout Award (May 24th, 2021) — Planned and executed a [community improvement project](#), managing timeline, budget, and a team of 12+ volunteers while demonstrating [leadership](#), [project planning](#), and [resource allocation skills](#)