Saul Hanson

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EDUCATION

Brigham Young University Apr 2027
Bachelor of Science: Computer Science, Emphasis in Animation and Game Development Provo, UT

- GPA 3.85
- Relevant Coursework: Software Construction, Data Structures, Scripting for Animation, Real-time Techniques, Advanced Computer Graphics

SKILLS

Programming Languages: C++, C#, Python, Java, C
Frameworks & Tools: Unreal Engine 5 (C++/Blueprints), Unity, MonoGame, Git/Github, Perforce, Maya
Game & Graphics Development: Custom particle systems, procedural generation, client-server networking, player movement, enemy AI and state machines, spatial audio system in Unreal

WORK EXPERIENCE

Lantern of Souls Apr 2026-Present
Game Programmer - BYU Capstone Provo, UT

- Developed player movement and gameplay abilities in Unreal Engine 5 using C++ and Blueprints, including variable movement speeds
- Prototyped spatial audio and sound occlusion systems to enhance player awareness and immersion in a stealth-focused game
- Collaborated with a team of 10+ people including programmers, artists, and animators to iterate on game systems and improve player experience

Ultrawave May 2024-Present
Co-Developer & Game Programmer – Independent Game Project Cedar City, UT

- Developed reusable gameplay systems in C# for a custom MonoGame engine, including weapon logic, enemy AI, asset management, and client-server communication
- Designed and implemented a custom 2D particle system handling hundreds of particles, modular animations, and 16 configurable parameters for visual effects
- Built a procedural tiling tool using a custom wave function collapse algorithm, generating smooth tile transitions from 50+ unique tiles

Teaching Assistant – CS111: Intro to Computer Science Sep 2023-Present
Brigham Young University Provo, UT

- Assisted over 300 students per semester in developing programming proficiency in Python by explaining core concepts, debugging code, and reinforcing best practices
- Coordinated with professors and 30 TAs to develop effective strategies for assisting students, enhancing learning outcomes and engagement

VOLUNTEER EXPERIENCE

Church of Jesus Christ of Latter-day Saints Aug 2021-Aug 2023
Volunteer Croatia, Serbia, Bosnia

- Taught weekly English classes to groups of 10+ students across Croatia and Serbia, developing communication and cross-cultural collaboration skills

INTERESTS

- E-sports, gaming, piano, yo-yoing, creative writing, reading novels, snowboarding, distance running