

Gavin Hughes

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Education:

University of Texas at Austin

May 2025

- Mechanical Engineering Major, Elements of Computing Certificate, Entrepreneurship Minor
- Courses: Game Programming Paradigms, Elements of Graphic/Visualization, Elements of Mobile Computing
- Overall GPA: 3.9

Work Experience:

General Engineer, Dam Safety Section at T.C.E.Q.

Sep 2025 - Present

- Completed comprehensive reviews ensuring proper vetting of Texas' critical infrastructure
- Performed various types of hydraulic engineering studies vetting the performance of dams

Senior Software Developer, Virtual Robot Simulator

Aug 2020 - Sep 2025

- Designed and implemented user interface and advanced features
- Developed an interactive process to bring user-generated, custom robots into simulator
- Produced entertaining learning-based videos for elementary to high school students

Independent Game Developer and Video Producer

Aug 2017 - Present

- Conceptualized innovative and challenging game ideas and engineering projects to expand my skills
- Experimented with projects involving VR, AR, mobile, multiplayer, 3D, and educational
- Published YouTube videos to a community showcasing my progress in an entertaining format

Research Assistant, Study of Strain of Ceramics

Aug 2021 - Dec 2021

- Curated new drag-and-drop Excel files to efficiently generate complex graphs and data
- Analyzed simulated visual data for patterns of high strain rate ceramic deformation

Volunteer Experience:

Volunteer Actor, University Theater Guild's Children's Show

Aug 2022 – Dec 2024

- Performed each semester for the Helping Hand Home for Children
- Generated donations for the Home through multiple performances for students and parents

Skills & Abilities:

- Deep interest in game development, robotics engineering, and video production
- Experienced with Unreal, Unity, Godot, Blender, SolidWorks, Fusion360, and DaVinci Resolve
- Familiarized in the programming languages C#, Java, C++, Python, JavaScript, Swift, and TI-Basic

Activities and Honors:

- University of Texas Alumni for Electronic Game Developer Society (EGaDS), Robotics and Automation Society (RAS), and University Theater Guild (UTG)
- First Place for Couch Co-op Game Jam - Similar to the "Jackbox" games