

Ryan Gessel

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EDUCATION

Honors Bachelor of Engineering & Bachelor of Music – Computer Engineering & Jazz Anticipated May 2028
The University of Utah, John and Maria Price College of Engineering, College of Fine Arts Salt Lake City, UT

- Dean's List: 3 Semesters GPA: 3.92
 - Utah Academic Scholarship – Resident: 2024-2028, Courtney Isiah Smith Jazz Scholarship: 2024-2028
- Relevant Courses: Software Practice I & II, Intro to Data Structures and Algorithms, Computer Organization, Circuits and Systems I, Intro to Object-Oriented Programming, Physics of Digital Audio and Video

TECHNICAL SKILLS

Programming Languages and Skills: Java, C#, Python, SQL, HTML

Computer Applications: GitHub, LTSpice, Microsoft Office Suite, Godot Game Engine, Logic Pro

PROJECTS

Spreadsheet | C# | [GitHub Link](#) August 2025 – November 2025

- Developed a spreadsheet that can hold strings, numbers, and evaluable formulas using custom made classes to represent formulas and formula dependencies.
- Created a custom GUI using C# and HTML, in addition to leveraging CSS to implement a dark and light mode.

Digital Audio Workstation | Java | [GitHub Link](#) October 2024 – December 2024

- Developed a Digital Audio Workstation where the user can create and edit tracks and songs.
- Created a custom file type to allow for easy transfer of songs between users.
- Implemented a chord stacking system allowing the user to automatically place commonly used chords.

Markov Chain Text Generator | Java | [GitHub Link](#) April 2025

- Created a Markov chain using several data structures and algorithms to predict the next word in sentence.
- Optimized code so the Markov chain would create a new Markov chain and generate 200000 words from a text file of 10000 random strings in a hundredth of a second.

WORK EXPERIENCE

Stage Manager October 2024 – Present
University of Utah School of Music Salt Lake City, UT

- Responsible for running livestreams and archiving recordings, in addition to establishing the stage for performers.
- Helped the University hold several dozen concerts a semester by ensuring that musicians had necessary microphones, stands, and chairs.
- Assisted the University's Audio Engineer in recoding and mixing the Salt Lake Choral Artists.

Crew Member July 2022 – June 2024
Mod Pizza Woods Cross, UT

- Provided excellent customer service while maintaining quality and speed during peak hours.
- Maintained a clean and safe work environment while handling a high volume of orders.

VOLUNTEER EXPERIENCE AND CAMPUS ENGAGEMENT

Volunteer Coordinator | *Best Buddies* May 2025 – Present

- Tracked volunteer service hours and onboarding for over 20 volunteers, in addition to fulfilling volunteer responsibilities.

Member | *GameCraft Club* | *University of Utah* | [Itch.io Profile](#) August 2024 – Present

- Participated in 6 university affiliated game jams with teams of 2-7 other artists and engineers to create a game within a weekend.