Logan Bjork

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Education

University of Florida Gainesville, FL
B.S. in Computer Science - GPA: 3.78/4.00 - Dean's List *July 2023 – December 2026*

Relevant Coursework: Embedded Systems, Operating Systems, Penetration Testing (Ethical Hacking), Data Structures and Algorithms, AWS Cloud Practitioner Essentials

Experience and Involvement

Audio Engineering Society Dec. 2025 - Present
Graphic Design Lead *Gainesville, FL*

- Illustrated and designed various club paraphernalia such as advertisements, posters, and shirts
- Effectively communicated with other officers and leadership, resulting in fixed deadlines and integration of art in other areas of the club
- Active member through attendance of **hardware meetings** and involvement in the chapter's band

Remote CISE Tutor Feb. 2024 - Sep. 2025
Tutor and Community Manager *Gainesville, FL*

- Helped organize and manage a student-run community with over **600 active members**
- **Remotely assisted** students taking various **CISE** courses at the University of Florida by providing online resources and both conceptual and visual explanations

Projects

RANDRUM | Repository | *Rust, midly, CLAP* Dec. 2025

- A **CLI** tool created in **Rust** that randomly merges .MID files to create full drum grooves
- Designed a CLI using the **CLAP** (command-line-argument-parser) crate, allowing users to generate files, view a valid list of instruments, and view general syntax
- Incorporated the **midly** crate to easily parse and write .MID files after randomizing and verifying valid input

SWAP | Repository | *C, ALSA* Jan. 2026

- A simple **WAV** audio player created solely in **C**, specifically for operating systems based on the **Linux kernel**
- Allows the creation and playback of simple, mono .WAV files via writing/parsing a .WAV header and any relevant audio data
- Used the Linux kernel's **native ALSA library** as the API for sound card device drivers to process and playback audio

TRIFECTA | Repository | *Python, discord.py, AWS* Jun. 2024 - Aug. 2024

- A Discord bot designed to work as a leaderboard for a variety of New York Times minigames
- Used Discord's provided **Python API** to read, write, and log user-sent scores in realtime
- Previously utilized **AWS** as a hosting service to allow TRIFECTA to run 24/7

Filesystem Recreation | *C++, C, FUSE* Apr. 2025

- A recreation of a filesystem created in **C++** that allows for reading, deleting, and creating files and directories, as well as writing to empty files
- Utilized the **FUSE** library for **Linux**, creating a daemon in C that allows the filesystem to be mounted and used in real-time
- Used object-oriented principles when creating a data structure representing the filesystem, such as virtual base classes and 'is-a' relations under the hood

Technical Skills

Languages: C++, Rust, Python, C, ARM Assembly, Java, HTML/CSS
Tools and Methodologies: Git, Linux (Arch, Ubuntu, Kali), Neovim, VS Code, Bash/Shell, gdb, Arduino, Visual Studio, AGILE, Figma
Foreign Languages: Italian (Conversational)