

J. Connor Sample

📍 Harrisonburg, VA 🌐 tabulate.tech **in** [connor-sample](https://github.com/connor-sample) 🔄 [TabulateJarl8](https://github.com/TabulateJarl8)

Professional Summary

Computer Science student specializing in Systems Programming (Rust/C) and Automation. Seeking roles in OS development, networking, or backend engineering. Backed by 12+ years of programming experience, including Linux administration, open-source contributions, and embedded systems projects.

Technical Skills

Languages: Rust, Python, C, Java, TypeScript, Bash, HTML/CSS, SCSS, Ruby, x86 Assembly

Technologies: Git, Linux, Docker, CI/CD, Flask, Bootstrap, Qt, LaTeX, Vite

Concepts: Operating Systems, Networking, Data Structures, Systems Programming, FFI, SCRUM, Unit Testing

Experience

IT Assistant

James Madison University College of Science and Mathematics

Harrisonburg, VA

Jan 2024 – Present

- Orchestrate network-based management and imaging for 350+ desktops across campus using FOG.
- Architected and deployed a containerized Flask/React application (Docker) on a remote server to streamline workflows.
- Troubleshoot networking issues and document server maintenance procedures for the department knowledge base.

Software Developer Intern

Fluvanna County Public Schools IT

Palmyra, VA

Aug 2022 – Mar 2023

- Engineered a bus pass generation system using Qt and SQL, replacing legacy software used by 3 schools in the district.
- Designed a maintainable, documented codebase to ensure long-term usability by future staff.

Projects

Rosa (Operating System)

gitlab.com/TabulateJarl8/rosa

- Developed a hobby kernel and OS in Rust from scratch, implementing PCI, IDE/ATA, and EXT2 file system support.
- Navigated the ACPI specification through 50+ hours of analysis to architect the OS power management subsystem.
- Built in audio support and integrated applications.

Vapor

github.com/TabulateJarl8/vapor

- Created a Python TUI (Terminal User Interface) tool utilizing the Textual library to analyze Steam libraries.
- Integrates with ProtonDB APIs to fetch and display Linux compatibility ratings for Windows games.

AnuBIS

gitlab.com/TabulateJarl8/anubis

- Developed a data entry and hardware interface program to generate physical bus passes via DYMO LabelWriter 450.

devexec

github.com/TabulateJarl8/devexec

- Developed a Rust kernel module enabling execution of buffered writes via anonymous shared memory files.
- Used unsafe kernel interfaces to execute code directly from memory, bypassing standard security.

Personal Homelab

- Administered a bare-metal Debian server, implementing a ZFS RAIDz1 NAS and Docker container management.
- Securely exposed web services to the internet using Cloudflare Tunnel as a zero-trust reverse proxy.
- Achieved a 99.57% service uptime.

Education

James Madison University — Harrisonburg, VA

Aug 2023 – May 2027

BS in Computer Science — Major GPA: 4.0/4.0 — Cum. GPA: 3.917/4.0

- **Coursework:** Operating Systems, Computer Systems I/II, Software Engineering, Data Structures & Algorithms, Discrete Structures, Advanced Networking, Advanced Algorithms, Navigation Systems.

Certifications & Leadership

Linux Foundation Certified Systems Administrator (LFCS)

Aug 2025

The Linux Foundation • ID: LF-3x36tjsqkk

President — JMU Unix Users Club

Jan 2024 – Present

- Present technical workshops on Linux administration and open-source technologies to diverse audiences.
- Manage club infrastructure and assist in organizing outreach events.

Member — Upsilon Pi Epsilon (ΥΠΕ)

Apr 2026 – Present

- Inducted into international computing honor society, restricted to the top 11% of CS majors in 2026.