

# Eliza Samuels

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## EDUCATION

### James Madison University

Harrisonburg, VA

Bachelor of Science in Computer Science, Minor in Mathematics

Aug. 2021 – Dec. 2025

GPA: 3.5, Cum Laude

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (PostgreSQL), JavaScript, HTML/CSS

**Additional Exposure:** Rust, Ruby, Haskell, TeX, Assembly (x86)

**Frameworks & Tools:** React, Django, Node.js, JUnit, Docker, GitHub, Unix/Linux, VS Code, Eclipse

**Libraries:** pandas, NumPy, Matplotlib

**Courses:** Operating Systems, App & Web Development, Data Structures & Algorithms,

**Interests:** Nail and fashion design, modeling, singing, interior design

## EXPERIENCE

### Web Developer & Research Assistant

May 2024 – Aug. 2024

Harrisonburg, VA

*Music CPR - Create, Perform, Respond*

- Improved UI components for functionality, accessibility, and usability.
- Conducted UX testing, documented issues, and proposed data-driven improvements.
- Collaborated with a cross-functional team using Git and iterative feedback cycles.
- Integrated frontend with backend services, validating API responses and resolving data flow issues.
- Debugged and refactored code to improve performance, maintainability, and browser compatibility.

### Treasurer

Dec. 2022 – Dec. 2023

Harrisonburg, VA

*JMU Club Cheerleading*

- Coordinated fundraising events, raised \$12,000, tracked expenses, and managed finances.
- Communicated with 35 team members and university staff to run compliant operations.

### Host & Server

May 2022 – Oct. 2023

*The Mill at Fine Creek*

Powhatan, VA

- Hosted guests, set up wedding venues, and assisted with dinner service for events.

### Summer Camp Coordinator

July 2022 – Aug. 2022

*Powhatan County Public Schools*

Powhatan, VA

- Developed an elementary summer program, including curriculum design, and project execution.

## PROJECTS

### Software Projects | Java, JavaScript, HTML, CSS, Agile, SCRUM

2023 – Present

- Created a VR escape room, nail & closet inventory/design app, and map visualizer.
- Developed responsive web interfaces using HTML/CSS, JavaScript, and React.
- Implemented RESTful APIs, authentication, and databases; developed full-stack applications.
- Developed JUnit-based unit and integration tests across the software development lifecycle (SDLC).

### Systems Projects | C, Git, Linux

2023 – Present

- Created a y86 CPU simulator in C following Von Neumann architecture principles.
- Implemented process creation, synchronization, memory management, and file systems.
- Configured port connections and network communication using sockets and system calls.
- Debugged C programs using gdb to diagnose memory errors, segmentation faults, and system call failures.

## SERVICE

### Computer Science, Math, & National Honor Societies

2019 – 2021

- Completed 130+ hours of community service and STEM outreach.
- Served as a camp counselor, encouraged inclusive hands on engagement in technical fields.
- Volunteered for service events geared toward providing for schools and communities.

### Powhatan County Food Drive

2019 – 2020

- Organized and raised 1,500 food items and provided Thanksgiving meals to over 300 families.