

# Emily Miller

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[@python151](#) on GitHub

## EDUCATION

### University of Edinburgh

September 2024 - June 2028

BSc Computer Science and Mathematics (Hons)

### Tarrant County College

May 2022 - June 2024

Dual Credit Program

## EXPERIENCE

### Textron, Internship— IT Co-Op, Cloud Operations

May 2023 - August 2024 (Part-Time, Avg. 25 hrs/week)

- Developed enterprise firewall change request process to streamline firewall changes in ServiceNow. Integrated with 7 business units and 3 vendors, impacting over 350 tickets.
- Improved various operational processes through automation including assisting in developing our VM modification and decommission processes by implementing, testing, and pushing 17 change requests through to production.
- Integrated with the Azure Service Bus REST API to automate implementation of operational readiness reviews (ORRs).

### Textron, Internship— IT Intern, Cybersecurity Engineering

August 2022 - May 2023 (Part-Time, Avg. 20 hrs/week)

- Developed Python programs for OSINT and attack surface discovery in response to incidents, improving threat intelligence.
- Worked with our Security Operations Center (SOC) to develop new endpoint and server security controls in response to Red Team exercises.
- Managed our Splunk SIEM instance, working directly with the Cyber Incident Response Team (CIRT) to enhance alerting mechanisms for improved incident detection.
- Applied Databricks and Python to develop an ETL pipeline between our Azure Data Lake and Splunk, optimizing data integration and analysis.

### Edikt Studios, Internship— Software Development

September 2021 - May 2022 (Part-Time, Avg. 8 hrs/week)

- Used Unity and C# to develop a VR based real time strategy game.
- Leveraged SCRUM, GitHub, and Jira for project management.

## PROJECTS

### 3D Rendering Engine— Application

C, SDL

- Parses STL and OBJ file formats.
- Perspective projection using Affine transformations.
- Rasterization algorithms like Bresenham's line drawing algorithm and scanline.

## PROGRAMMING LANGUAGES

Python (Advanced)

C (Advanced)

Javascript (Advanced)

Rust (Intermediate)

X86 Assembly (Intermediate)

SQL (Intermediate)

## TOOLS & TECHNOLOGIES

IDA Pro

Wireshark

Virtualization

Linux System Administration

## SECURITY SKILLS

Malware Analysis

Binary Exploitation

Software Packing and Obfuscation

Defense in Depth

## RELEVANT COURSEWORK

Intro to Computation (Haskell)

Intro to Data Science (R)

Linear Algebra

Programming II (C++)

Introduction to Relational Databases (SQL)

C Programming

## SOFT SKILLS

Collaborative Team Experience

Strong Communication and Presentation Skills

Proven Success in Public Speaking Competitions