

# Zachary Ryan

724-777-0254 • Zxrst175@mail.rmu.edu • zachary200114.github.io • LinkedIn • GitHub

## EDUCATION

**Robert Morris University**  
Bachelor of Science in Cybersecurity  
**Community College of Beaver County**  
Cybersecurity

Pittsburgh, PA  
August 2024- December 2026  
Monaca, PA  
Jan 2024 - May 2024

## SKILLS

Languages: Python | HTML | CSS | Java | SQL

Technical: Linux | Operating Systems | Digital Forensics | Cyberlaw | Networking | Cybersecurity | Computer Hardware | Firewalls

Conceptual: SIEM | Wireshark | tcpdump | Ethical Hacking | Virtualization | VirtualBox | HyperV | Firewalls | SSL/TLS | Nmap

Core Competencies: Leadership | Attention to Detail | Verbal Communication | Critical Thinking | Problem Solving

## LICENSES AND CERTIFICATIONS

- Top Secret Clearance - DOD Issued
- Google Cybersecurity Specialization Certificate [\[Certificate Link\]](#)

## EXPERIENCE

**United States Navy** | Machinist Mate - Nuclear Reactor Department | Norfolk, VA

July 2020 - September 2023

- Operated and maintained primary and secondary nuclear propulsion systems, ensuring the equipment's safe and efficient functioning
- Functioned under high-pressure conditions while maintaining strict attention to detail and compliance with safety standards
- Conducted routine and emergency maintenance on mechanical systems such as pumps, turbines, and valves as a shipboard engineer
- Handled incident response, system monitoring, diagnostics, and secondary nuclear reactor equipment troubleshooting
- Demonstrated teamwork and communication, collaborating with multiple teams to maintain operational standards

## PROJECTS

**Port Scanner - Web Application** | [\[Github\]](#)

Mar 2025

- Developed a web-based TCP port scanner using Flask and Python socket library, allowing users to identify open ports
- Used ThreadPoolExecutor for efficient multi-threaded scanning across port ranges
- Followed ethical guidelines and legal standards for responsible port scanning
- Designed a clean HTML/CSS front-end with Jinja2 for displaying results
- Enforced a 5-second timeout mechanism to restrict scan duration and mitigate system strain and accidental abuse

**To Do List Application** | [\[Github\]](#)

Jan 2025

- Built an interactive task manager GUI using Python and the Pygame library
- Enabled task addition/removal and name personalization via user input
- Integrated responsive feedback when marking tasks complete or switching modes

**Personal Portfolio Website** | [\[Portfolio\]](#)

Jan 2025

- Developed and launched a responsive portfolio website highlighting cybersecurity experience and projects
- Implemented smooth scrolling, sticky navigation, and mobile-optimized layouts using HTML/CSS
- Created animated skill icons using Javascript to enhance the user experience
- Built sections for About, Skills, Projects, and Achievements with a custom layout and style
- Integrated Github, LinkedIn, and email links for easy professional contact and interactivity

**Password Cracker** | [\[Github\]](#)

Jan 2025

- Built a Java Swing GUI tool simulating password brute-force attacks and secure password generations
- Implemented SHA-256 hashing and recursive cracking logic with live progress updates
- Added adjustable parameters like max length and charset for cracking flexibility
- Added option to export generated passwords to a text file for offline use or system setup

## Co-Curriculars and Achievements

- Active member of Top Secret Colonials (TSC) - Campus Cybersecurity Club
- Capture the Flag (CTF) team member for Robert Morris University (RMU)
- Presidents List Recipient - Community College of Beaver County (CCBC) [\[Link\]](#)
- Dean's List Fall Semester - Robert Morris University (RMU) [\[Link\]](#)
- Honor Society Nomination - Issued by the National Society of Leadership and Success [\[Link\]](#)