

Zachary Ryan

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EDUCATION

Robert Morris University
Bachelor of Science in Cybersecurity

Pittsburgh, PA
August 2024- December 2026

Community College of Beaver County
Cybersecurity

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 nuclear propulsion systems, ensuring safe, efficient, and reliable performance at sea
- Functioned under high-pressure conditions while maintaining strict attention to detail and compliance with safety standards
- Conducted scheduled and emergency repairs on pumps, turbines, valves, and other mechanical systems
- Handled incident response, system monitoring, diagnostics, and secondary nuclear reactor equipment troubleshooting
- Demonstrated teamwork and communication, collaborating with multiple teams to maintain operational standards
- Maintained secure reactor operations by enforcing layered access controls, reviewing system status logs, and detecting abnormal system behavior—ensuring operational continuity, technical resilience, and safety in mission-critical environments

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 [\[Link\]](#)