

# Mark Wilkinson

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## Professional Summary

I am a motivated senior high school student with a strong passion for cybersecurity and hands-on experience in security operations, malware analysis, and digital forensics. With multiple certifications and a proven track record of independent learning and project work, I am eager to apply my skills and contribute to real-world cybersecurity challenges.

**Languages:** Rust, Python, Java, Nim, JS (React, React Native)

**Skills:** Security Operations, SIEM, Incident Response (NIST/SANS), Digital Forensics (Ghidra, KAPE, Volatility3), Vulnerability Assessment (OpenVAS, Metasploit, NMap), Active Directory, Linux

**Certifications:** CySA+ (Comptia), Google Cybersecurity Professional Certificate (Google)

## Education

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### Weston High School - Current Senior (Grade 12)

| Expected graduation date: June 2025

- SAT: 1500 (710 English, 790 Math) | 3.63/4 GPA; Honor Roll (7/7))
- AP Scores: Computer Science Principles (5); Computer Science A (5); Biology (5); United States History (4)
- Leadership board of American Computer Science League club, Math Team, Academic Decathlon
- Varsity Wrestling Captain, 4x CIAC Scholar Athlete, Spoke at CIAC-CAS Sportsmanship conference

### Champlain Cybersecurity and Digital Forensics Summer Academy

June 2021

| Student

- Worked with cybersecurity professors
- Won summative capture-the-flag challenge
- Hands on practice with topics like: IOT security, digital forensics, malware analysis, and cyber threats

### Practical Malware Analysis and Triage

October 2024

| TCM Security

- Course focusing on static analysis, dynamic analysis, reverse engineering, and triage

*Topics Covered: x86 Assembly, Ghidra, Radare2, GNU Debugger, Powershell Obfuscation, Network Analysis, Yara Rules*

### Security Operations (SOC) 101

Feb 2025

| TCM Security

- Course by Andrew Prince focusing on fundamental SOC analyst skills

*Topics Covered: Phishing Analysis, Network Security Monitoring & Analysis, EDR, Log Analysis and Management, SIEM, Threat Intelligence, Digital Forensics & Incident Response*

### Cybersecurity Analyst+

Nov 2024

| Comptia

- Certificate focusing on cybersecurity analyst role

- Domains include: security operations, vulnerability management, incident response, and reporting

*Topics Covered: ISO-27001, FISMA, HIPPA, SIEM, Threat hunting, EDR, IDS, IPS, NGFW*

## Tryhackme

Ongoing

### | Student

- Ranked .15% out of over 4 million users (#6222)
- Successful completion of Junior Red Team path and Lateral Movement and Pivoting AD Network
- Top 1000 in the United States
- Member since 2021
- <https://tryhackme.com/p/Mark1111011>

## Projects

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## Adapt Security

June 2024 - Present

### | Head Engineer

- Developed multiple Rust applications using Rocket
- Wrote custom networking and MQTT libraries
- Wrote embedded code for microcontrollers
- Currently co-leading research in developing practical modular home security devices.

*Technologies Used: React Native, Rust, EDA (Electronic Design Automation) software, various Microcontrollers, and MQTT*

## Warden C2

December 2024 - Present

### | Sole Developer

- Developed a complete command and control software
- Implemented a listening post in rust with a restful api and sqlite database
- Wrote a command line utility to interact with the listening post to create and manage tasks
- Wrote a lightweight cross-platform implant
- <https://github.com/mrk-wilkinson/WardenC2>

*Technologies Used: Rust, SQLITE, WinAPI,*

## Markwilkinson.tech

### | Developer and Author

- Configured hosting static site through github pages and cloudflare
- Implemented github actions to automatically compile and deploy update site
- Wrote blog posts with various infosec content

## Cyberwarfare in Russo-Ukrainian War

November 2024

### | Lead Author

- Literature Review on the impact of cyberwarfare in Russo-Ukrainian War; Focuses on impacts on infrastructure, civilian life, and global response.