

Andrew Wheeler

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wheeler-cs.github.io

Career Objective

Computer science student nearing graduation with a strong desire to grow and learn. Seeking a full-time position in a cybersecurity-related field.

Education

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| Tennessee Tech University – Master of Science, Computer Science, Information Assurance and Cybersecurity | Aug. 2024 – May 2026 |
| Tennessee Tech University – Bachelor of Science, Computer Science | Aug. 2022 – May 2024 |
| Pellissippi State Community College – Associate of Science, Computer Science | Aug. 2019 – May 2022 |

Work Experience

Research Assistant

Tennessee Tech University, Cookeville, TN

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| <ul style="list-style-type: none">• Research project funded by the National Science Foundation (NSF) with the purpose of investigating the applicability of machine learning in malware detection and analysis.• Utilized research project tools and concepts to develop comprehensive educational modules for college-level courses and workshops, including informational slides, programming labs, and instructor content. | Feb. 2023 – May 2024 |
| | May 2025 – May 2026 |

Skills

Programming Languages

- **C++ (6 years):** Used to develop general-use applications.
- **C (4 years):** Low-level development of embedded applications and pseudo-malware.
- **Python (3 years):** Used in a variety of projects, including networking, machine learning, and data processing.

Programming Tools

- **Make (5 years):** Used in conjunction with C-like languages for executable building.
- **Git (4 years):** Managed repositories on both GitHub and self-hosted GitLab instances.

Operating Systems

- **Windows:** Daily-driver OS used for both casual and development purposes.
- **Debian:** Used to run both servers and desktop PCs.

Projects

Graphene – Python

- Machine learning-based malware detection framework utilizing program control flow graphs.
- Utilizes several tools as part of a multi-layered software stack for feature analysis.
- Framework developed as part of thesis work for master's degree.

Pokémon Beryl – C, ARM ASM, Poryscript

- Modification of Pokémon Emerald utilizing an open source decompilation project.
- Extensive modification to event scripting and game engine using C and community made tools.

Raspberry Pi Server

- Personal server utilizing a Raspberry Pi SBC and the Raspbian OS.
- Runs a self-hosted file server (Samba), music server (Navidrome), and GitLab instance.