Andrew N. Rippy

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Computer science graduate student with both strong technical skills and excellent public speaking ability. Strong team player and asset. Fluent with breadth in Computer Science, Math and Physics. Developing specialist in cybersecurity. Quick and eager learner and resilient worker. Positive, cheerful, and community driven.

EDUCATION

CARNEGIE MELLON UNIVERSITY **Pittsburgh, Penn.**
Master of Science in Computer Science *Anticipated May 2025*

- **Relevant Coursework:** Computer Systems, Computer Security, Distributed Systems, Cyber Physical Systems, Machine Learning, AI Methods for Social Good

WABASH COLLEGE **Crawfordsville, Ind**
Bachelor of Arts in Computer Science, Math, and Physics *May 2022*

- **Honors**: *Summa Cum Laude, Lilly Scholar, Phi Beta Kappa, Sigma Pi Sigma*
- **Relevant Coursework:** Algorithms, Operating Systems, Machine Organization, Machine Learning

INDUSTRY PROJECTS

PIXELFLY / MOTION / TMOBILE ENTREPRENURIAL STREAMING VENTURE

- Worked on a 4 man team for TMobile to develop drone streaming specifically HLS/RTMP streaming with a Jetson Nano, as well as Android Development for a streaming app with AWS.

ACADEMIC PROJECTS

GRAPH BASED MALWARE DETECTION (NSF REU MONTANA STATE UNIVERSITY)

- Researched and developed malware detection techniques with a partner.
- Gave college-wide colloquium presenting the research.
- Applied machine learning graph embedding techniques and clustering algorithms to more accurately detect malware binaries from benign binaries.

ML-BASED LECTURE TRACKING

- Designed a control interface and algorithm for tracking a professor during lecture using machine learning and OpenCV with three other team members.
- Dealt with many moving parts in a larger group of eight for the full project.
- Discovered and implemented unique and creative ways to combine each piece of the project.

PARTICLE PHYSICS SIMULATION FOR MoNA COLLABORATION (NSF REU)

- Built a highly accurate ground-up simulation of a Modular Neutron Array
- Functioned as a widely accessible tool for the collaboration to verify and compare against traditionally used software

ADDITIONAL SKILLS

- Technical skills: Python, C, C#, C++, HTML, Mathematica, Unix
- Comfortable with public speaking, group presentations, and working with others