

Michael Vinciguerra

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EDUCATION

University of New Hampshire

Expected May 2026

Bachelor of Science in Computer Science | Durham, NH

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Cloud Computing, Machine Learning, NLP, Object-Oriented Design, Database Systems & Design (SQL & Relational Algebra), Cybersecurity Principles, Concurrency

TECHNICAL SKILLS

Networking: TCP/IP, Ethernet, VLANs, Wireshark, Spirent, Ixia, Network Troubleshooting & Config

Security & SOAR: Splunk (SIEM), Microsoft Defender, CrowdStrike, SOAR, Log Analysis, Incident Triage

Dev Tools: Python, Java, C, Git, Bitbucket, IntelliJ, Jira, Android Studio

OS & Methods: Linux, Windows, macOS, Agile/Scrum, Technical Documentation

AI/ML: Ollama, RAG, Prompt Engineering, LLM Integration

RELEVANT EXPERIENCE

UNH Interoperability Labs (IOL)

Feb 2024 – Present

Test Technician & Developer | Durham, NH

- Independently lead testing sessions with global technology partners (AMD, Apple, Intel, Cisco, HP, Eero), configuring and validating networking switches and devices for IEEE 802.3 compliance.
- Perform deep-packet analysis using Wireshark and execute performance testing with Spirent and Ixia; troubleshoot device configurations and validate throughput, reliability, and protocol behavior.
- Built a Python automation tool (Streamlit + Pandas) to streamline device selection and generate formatted Word/Excel reports, cutting lab setup time by 40%.
- Present findings and lead technical meetings with client engineers; maintain detailed documentation and onboard new technicians on lab equipment, workflows, and standards.

PROJECTS

Threat Detection & Analysis Learning Model

Jan 2025 – Present

Senior Capstone — UNH Cybersecurity Department

- Building an AI-driven autonomous security analyst to enable 24/7 threat detection, extending coverage beyond analyst working hours and reducing mean time to respond.
- System ingests live security events via Splunk platform, classifies threats using a SOAR workflow; integrating custom Python scripts with local Ollama models and auto-generates structured incident summary reports routed to analysts for faster triage.
- Integrated Retrieval-Augmented Generation (RAG) with Deep Thought to provide enhanced context-aware insights during the investigation progress.
- Performed hands-on security log analysis, incident triage, and alert rule configuration in Splunk; worked with Microsoft Defender telemetry and evaluated multiple SOARs and language models.

Randomizer — Automation Tool

2024

UNH Interoperability Labs

- Designed and built a Python application to automate device selection and reporting for lab testing; integrated Pandas for Excel input processing and generated formatted reports. Autofills reports with new results when needed.

LEADERSHIP EXPERIENCE

Pi Kappa Phi — Founding Father & Risk Manager

August 2022 - Present

University of New Hampshire

- Co-founded the chapter from the ground up, growing to 80+ active members; authored bylaws, organizational structure, and recruitment frameworks still in use today.
- Served as Risk Manager, developed and enforced chapter compliance policies and coordinated logistics for a formal chapter event.
- Mentored members on academics and professional development; contributed to organizing fundraising campaigns raising \$4000+ for The Ability Experience.