

Matthew Ngoy

Old Bridge, NJ | 848-667-5199 | ngoym@kean.edu | [linkedin.com/in/matthewngoy](https://www.linkedin.com/in/matthewngoy) | github.com/Vaunty

Summary

CS senior focused on AI security and secure infrastructure; seeking a Summer 2027 internship.

Education

Kean University

Union, NJ

Bachelor of Science in Computer Science (Cybersecurity Option); GPA: 3.52

Expected May 2027

- **Relevant Courses:** Ethical Hacking; Digital Forensics; Computer Security; Cryptography & Cryptanalysis; Data Structures; Analysis of Algorithms; Operating Systems; Database Management Systems.
- **Honors & Programs:** NSF IUSE Scholar (2025, 2026); CRA UR2PhD; CAHSI Travel Scholar; Dean's List; Upsilon Pi Epsilon; WELL Program; Young Envoys Scholarship.

Technical Skills

Languages: Python, Java, JavaScript, SQL, PHP, PowerShell

Security: OWASP LLM Top 10, MITRE ATLAS, OSINT, Nmap

AI & LLM: Ollama, OpenAI API (fine-tuning), LLM-as-judge evaluation, Claude Code, Codex

Tools & Frameworks: Linux (Ubuntu, Kali), Docker, Git, MySQL, SQLite, Node.js, Arduino/ESP8266

Coursework Exposure: TypeScript, Wireshark, Metasploit, Hashcat, Autopsy

Experience

Secretary

Sep. 2026 – Present

Women in CyberSecurity (WiCyS), Kean University Chapter

Union, NJ

- Coordinated guest-speaker scheduling and campus event planning for **PHD4FREE!**, developing the research and graduate-funding event from August through October 2026.
- Presented pathways into research, paid undergraduate programs, and graduate fellowships alongside Notre Dame PhD student Demetrius Hernandez, reaching **15 attendees**.

Peer Mentor / Code Samurai

Sep. 2026 – Present; Jan. – May 2025

Kean University Department of Computer Science (Code Samurai)

Union, NJ

- Guide students through Python, SQL, data structures, and debugging in one-on-one sessions.
- Volunteered in Spring 2025, paused mentoring to focus on research and projects, and returned as a paid mentor in Fall 2026.

Cybersecurity Research Intern

May 2026 – Present

Kean University Center for Cybersecurity

Union, NJ / Wenzhou, China / Beijing, China

- Investigated nonprofit cyber incidents through OSINT for the Non-Profit Cyber Incident Repository, classifying reports by CIA-triad impact, CISA sector, and TAG Cyber taxonomy.
- Design solar-power and rack-energy monitoring for Mobile ACDC, the Center's portable teaching data center.
- Built an Arduino/ESP8266 smart-home lab.
- Configured classroom computers for the Port Authority of NY/NJ STEaM Camp, preparing **30 laptops**.
- Taught cryptography, programming, and IP addressing across 12 lessons at STEaM Camp, reaching **60** high school students.

International Youth Delegate

Sep. – Oct. 2025

International Forum We, the Youth (IFWY)

New York, NY / Seoul, Korea

- Spearheaded project design and scope for SelectSolar, a proposal to divert solar panels from landfills and deliver low-cost, energy-efficient power solutions to educational and non-profit institutions.
- Selected for a fully funded fellowship at Cornell Tech, then voted 1 of 25 North American delegates for the IFWY Final Conference in Seoul, collaborating on international environmental policy and sustainable solutions.

Projects

KEAN CTF 2027 | *Python, Docker, CTFd, Cloudflare Tunnel, GitHub Actions*

Sep. 2026 – Present

- Co-develop Docker-isolated CTF challenges and solve scripts with AI assistance and two teammates, including defenses intended to resist blind AI solvers.
- Automated challenge validation in GitHub Actions with AI assistance.
- Corrected an **unintended flag leak and broken hints** through an AI-assisted player audit.

LLM Red-Team Harness | *Python, SQLite, Ollama*

June 2026

- Built an AI-assisted pipeline for prompt-injection, jailbreak, and data-leak tests, saving model-judge verdicts and transcripts in SQLite and JSONL.

Research & Presentations

Independent Study, Red-Teaming HadAgent | *Advisor: Dr. Boyang Li*

Sep. 2026 – Present

- Investigated verification guarantees by directing and interpreting AI-designed, AI-run tests of a copied HadAgent prototype; identified local **score-validation** and model-execution gaps.

Debate Coach LLM Evaluation | *CRA UR2PhD; JavaScript, Node.js, OpenAI API*

Feb. – Apr. 2026

- Helped fine-tune and evaluate LLM debate coaches with two teammates; contributed citation checks, participant interviews, and presentation, using an AI-assisted audit to examine source reliability.