

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

Computer science senior preparing for PhD research in AI security, focused on LLM red-teaming, jailbreak robustness, and verification of AI computation.

Education

Kean University

Union, NJ

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

Expected May 2027

- 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

Research & Security: LLM benchmarking, adversarial testing, citation checking, OSINT, OWASP LLM Top 10, MITRE ATLAS

Tools: Linux (Ubuntu, Kali), Docker, Git, MySQL, SQLite, Node.js, Arduino/ESP8266, Ollama, OpenAI API

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 and Technology

Union, NJ

- Guide students through Python, SQL, and debugging in one-on-one sessions so they can identify and explain their next steps.
- 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 and 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.
- Taught cryptography, programming, and IP addressing across 12 lessons at the Port Authority of NY/NJ STEaM Camp, reaching **60** high school students.

International Youth Delegate

Sep. – Oct. 2025

International Forum “We, the Youth” (IFWY)

New York, NY / Seoul, South 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

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

June 2026

- Built an AI-assisted pipeline for prompt-injection, jailbreak, and data-leak tests, preserving judge verdicts and transcripts in a public archive with offline tests.

Research & Presentations

HadAgent Verification Study | *Advisor: Dr. Boyang Li*

Sep. 2026 – Present

- Investigated whether verifier acceptance establishes model execution; directed the research questions and interpreted local tests designed and run by AI agents against a copied HadAgent verifier.
- Identified a **score-validation** gap and assessed a proposed repair through local synthetic-input tests; the repaired prototype still accepted a model claim without model execution.
- Disclosed the findings to the authors, limiting conclusions to the tested local prototype rather than deployed network behavior.

Gen Z Housing Demographics | *NSF IUSE Scholars Academy*

2026

- Corrected a county/state aggregation mismatch as **sole student author**; presented the weak county-level association at Great Minds in STEM without inferring causation.

Debate Coach LLM Evaluation | *CRA UR2PhD*

Feb. – Apr. 2026

- Helped fine-tune and evaluate LLM debate coaches designed to challenge users' arguments, working with two teammates.
- Audited **citation reliability** with teammates and AI assistance; contributed participant interviews and presented the project at the CRA UR2PhD research showcase.

Adaptive Learning with LLMs | *NSF IUSE Scholars Academy*

2025

- Prepared and checked synthetic tutoring dialogues with Node.js and monitored fine-tuning jobs; presented qualitative response comparisons as **first author** at Great Minds in STEM.