

Ethan Ho

eth007.me | matdaneth@gmail.com | ethanho@stanford.edu

EDUCATION

Stanford University

BS, Computer Science, Expected Graduation: 2027, GPA: 4.0

EXPERIENCE

OpenAI

May 2025 – November 2025

Contract, Frontier Evaluations Engineer

- Worked on the **Preparedness team** to monitor the risks of **frontier AI models** causing severe harm
- Engineered and analyzed scalable **evaluation benchmarks** to assess model **cybersecurity capabilities**
- Ensured that **pre-release models** are aligned with **policy frameworks** and **cyber safety guidelines**

Stanford Applied Cyber

May 2024 – Present

Projects and Competitions Team Member

- Independently discovered and responsibly disclosed **significant vulnerabilities** (XSS and HTML injection) in the Stanford mailing list manager, and **proposed patches** to University IT
- Developed tools for the **Collegiate Cyber Defense Competition** and **Collegiate Penetration Testing Competition**
- Performed **penetration tests** for student startups and nonprofit organizations with the **Stanford Security Clinic**

Lockheed Martin

June 2023 – May 2025

Full Stack Engineer Intern

- Worked on the **Tanzu Kubernetes Grid** and **Splunk** delivery teams using **AGILE methodologies**
- Refactored **AWS Lambda** scripts to **improve system security and performance** and presented work to stakeholders
- Optimized **Splunk dashboards**, enabling efficient and accurate **system inventory** across all company assets
- Created cloud-native update automation for **Rancher** using **Helm** and **GitLab CI/CD**

ImaginaryCTF

June 2020 – Present

Founder, Head Organizer, Infrastructure Lead

- Organized five **annual cybersecurity competitions** between 2021 and 2025, with over **1000 teams globally**
- Developed CTF challenges in web exploitation, binary exploitation, forensics, reverse engineering, and cryptography
- Led a **team of 20+ staff members** to create a monthly competition with challenges released daily
- Negotiated with **industry sponsors** (Google, Trail of Bits, Vector 35) to fund infrastructure and prizes

ACHIEVEMENTS

- 1st place individual in US Cyber Open CTF 2023 and 2024, top three nationally in CyberPatriot XIV, XV, and XVI
- On Team USA at the International Cybersecurity Challenge 2023, 2024, 2025

CERTIFICATIONS

- [OffSec Certified Professional+ \(OSCP+\)](#)
- [TCM Security - Practical Network Penetration Tester](#)
- [GIAC Cloud Security Essentials, GIAC Foundational Cybersecurity Technologies](#)

PUBLICATIONS

- [Comparing AI Agents to Cybersecurity Professionals in Real-World Penetration Testing \(2025\)](#)
- [BountyBench: Dollar Impact of AI Agent Attackers and Defenders on Real-World Cybersecurity Systems \(2025\)](#)

SKILLS

Skills: Programming (Python, C, C++, Java, SQL, Bash), Data Analysis (numpy, matplotlib, pandas, scikit-learn), Digital Forensics, Incident Response, Exploit Development, Adaptivity to new technologies, Documentation, Presentation

Technologies: Linux, Windows Server, Proxmox, Apache, NGINX, MySQL, MongoDB, Git, Splunk, Docker

Cloud: AWS Lambda, AWS EC2, GCP Compute Engine and GKE, Oracle Cloud Instances, Kubernetes