Ethan Ho

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EDUCATION

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

EXPERIENCE

Cybench: Evaluating AI Cybersecurity Capabilities September 2024 – Present
Undergraduate Researcher, Department of Computer Science

- Automated **ingest and verification** of cybersecurity tasks for evaluating AI capabilities, increasing the efficiency of the ingest process from taking several months to less than a week
- Developed tools to **enhance AI agent effectiveness** when analyzing cybersecurity problems and bug bounties
- Performed tests with the **OpenAI o3 model** in pre-release to evaluate model safety
- Worked under professors **Dan Boneh**, **Daniel Ho**, and **Percy Liang**

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
- Led **vulnerability research** and **enumeration** for web applications and Linux-based systems
- Developed tools for the **Collegiate Cyber Defense Competition** and **Collegiate Penetration Testing Competition**

Lockheed Martin June 2023 – Present
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

- Created cybersecurity capture the flag challenges to **promote cybersecurity education** in a gamified format
- Developed exercises in web exploitation, binary exploitation, forensics, reverse engineering, and cryptography
- Organized four **annual cybersecurity competitions** between 2021 and 2024, with over **1000 teams globally**
- 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

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

CERTIFICATIONS

- GIAC Cloud Security Essentials (2023), GIAC Foundational Cybersecurity Technologies (2021)

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