

HESTIA TAY

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Profile

Cybersecurity and Digital Forensics student with a background in scientific research and software development. Proactive and self-motivated, possessing strong aptitude for self-directed learning and a track record of completing projects autonomously. Seeking to further expand knowledge and skills to contribute to research and development efforts.

Education

Cybersecurity & Digital Forensics (Dip) | Ngee Ann Polytechnic

APR 2023 – PRESENT

- cGPA: 4.00
- DSTA Polytechnic Digital Scholar
- NullSec Tech Intern EXCO: Led workshop on OSINT • Created crypto, forensics and miscellaneous challenges for inter-poly CTF, Lag and Crash.
- Participated in various CTFs: Cyber:100 • CDDC • GreyCTF • SEETF • AYCEP, and many others.
- Participated in MINDEF's Sentinel Programme, simulating real-world CTI and threat hunting exercises.

Experience

Research Intern | Science Centre Singapore

JAN 2021 – FEB 2022

- Developed methodologies to minimise experimental discrepancies to a 1% error margin.
- Leveraged tools such as LibreCAD, Arduino, and Excel to enhance data analysis efficiency and accuracy.
- Authored a paper, presenting research findings to panel and attendees at the Youth Science Conference.

Projects

404Unfound – CTF Team

- Founded a CTF team (404Unfound.com) for enthusiasts across various skill levels to learn from each other.

BB84 Quantum Key Distribution (QKD) Simulator

- Developed a QKD tool using the Python Qiskit library to simulate various QKD environments.
- Integrated the simulator into a Flask web application, offering a more intuitive user experience.

NLTK Sentiment Analyser

- Developed a CLI tool with Python to assess sentiment in text data and generate reports with sentiment metrics.

Malware Scanner

- Developed a CLI tool with Python's ClamAV library for efficient and reliable malware detection in files.

Skills & Certifications

Language Proficiency

Python • C# • HTML5 • CSS3 • JavaScript • Bash

Science

Scientific Research • Scientific Communications

Cybersecurity

Kali/ParrotOS • RedHat Sysadmin • Cryptography
Digital Forensics (AXIOM / Autopsy / Imaging)

Soft Skills

Adaptable • Proactive • Teamwork

Certifications

Cisco Linux Essentials • Cisco Networking Essentials • AI Singapore – Literacy in AI