

# HESTIA TAY

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## Profile

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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

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### 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 Cryptography, 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

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### 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

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### 404Unfound – CTF Team

- Founded a CTF team ([404Unfound.com](https://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 with 84% accuracy.
- 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.

## Certifications

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### Cyber Security AI

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

## Skills

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### Languages Cyber Security Science Soft Skills

Python • C# • HTML5 • CSS3 • JavaScript • Bash  
Kali/ParrotOS • RedHat Sysadmin • Cryptography • Forensics (AXIOM / Autopsy / Imaging)  
Scientific Research • Scientific Communications  
Adaptable • Proactive • Teamwork