# KAIROS TAY

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### **Profile**

Cybersecurity and Digital Forensics student with experience in scientific research, software development, and digital forensics. Possesses strong aptitude for self-directed learning and a track record of completing projects autonomously. Seeking to push boundaries and drive innovation in cybersecurity.

### Education

### Cybersecurity & Digital Forensics (Dip) | Ngee Ann Polytechnic

**APR 2023 - PRESENT** 

- cGPA: 4.00
- DSTA Polytechnic Digital Scholar
- NullSec's President: Leading the EXCO team Organised key events like YCEP and NullSecCTF.
- Participated in various CTFs, notably: CDDC 2024 (3<sup>rd</sup>) GreyCTF 2024 (11<sup>th</sup>) Hack@AC (16<sup>th</sup>).

## **Experience**

#### DevSecOps Engineer Intern | Ensign InfoSecurity Pte. Ltd.

**AUG 2024 - OCT 2024** 

- Contributed to the research and development efforts of various cybersecurity solutions.
- Collaborated on the development of Ensign Aegis (ASM), enabling clients to manage their security posture by providing
  a holistic view of external-facing assets and proactively identifying vulnerabilities early.

### Research Intern | Science Centre Singapore

**JAN 2021 - FEB 2022** 

- Developed methodologies to minimise experimental discrepancies of kinetic studies to a 1% error margin.
- Leveraged tools such as Arduino, LibreCAD and Excel to enhance data analysis efficiency and accuracy.
- Authored and presented a research paper to a 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 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 for CTI to assess sentiment in text data and generate metric reports.

### **Certifications**

**Cyber Security** 

Cisco: Linux Essentials • Networking Essentials • Cybersecurity Essentials

Al Singapore – Literacy in Al

### **Skills**

Languages Cyber Security Science Soft Skills Python • C# • C++ • HTML5 • CSS3 • JavaScript • Bash

RedHat Sysadmin • Cryptography • Digital Forensics • Malware Analysis • Pentesting

Scientific Research • Scientific Communications

Adaptable • Proactive • Teamwork