

# HESTIA TAY

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Cybersecurity and Digital Forensics student with Python programming expertise and a background in scientific research. Proactive and self-motivated, known for taking initiative and working independently. Possesses 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 at DSO.

## EXPERIENCE

**JAN 2021 – FEB 2022**

**RESEARCH INTERN**, SCIENCE CENTRE SINGAPORE

- Leveraged software tools such as LibreCAD, Arduino, and Excel for experimental setup and data collection.
- Authored a paper titled "Ultrasonic Measurements of Gas Syringe Positions for Kinetic Studies of Reactions between Acids and Aluminium", presenting the findings at the Youth Science Conference.

**JAN 2022 – AUG 2022**

**STUDENT RESEARCHER**, COMMONWEALTH SECONDARY SCHOOL

- Conducted independent research and authored a paper on plastic tensile strength and degradability.
- Presented research findings through oral and poster presentations to school leaders, students, and the public.

**JAN 2023 – APR 2023**

**ASSISTANT STUDENT RESEARCHER**, CRESCENT GIRLS' SCHOOL

- Developed a sentiment analysis program using Python Natural Language ToolKit (NLTK) to analyse survey responses objectively and accurately.
- Provided valuable insights on various aspects of cybersecurity.

## SKILLS

- Python Programming
- Scientific Research
- Scientific Communication

## EDUCATION

**APR 2023 - PRESENT**

**CYBERSECURITY & DIGITAL FORENSICS**,  
NGEE ANN POLYTECHNIC

- Interest groups: ICT Society (Leadership), NullSec (Cybersecurity), AISIG (Data & Artificial Intelligence) and OVERFLOW (Technology & Programming)
- Participated in VishwaCTF'23
- Participated in FOSSASIA Summit

**JAN 2019 – NOV 2022**

**GCE O LEVEL**, COMMONWEALTH SECONDARY SCHOOL

- 6 Distinctions for O-Level and 'A' for STEM Elective Programme
- Participated in STEM Elective Programme 2021-2022
- Participated in A\*STAR Scientist-In-Schools Programme 2021

## CERTIFICATIONS

**APR 2023**

**NETWORKING ESSENTIALS**, CISCO

**APR 2023**

**AI41® LITERACY IN AI**, AI SINGAPORE

**JUL 2022**

**PYTHON ESSENTIALS**, CISCO

**JUL 2022**

**CYBERSECURITY ESSENTIALS**, CISCO