



# Lucas Tan Yi Jie

CTF and cybersecurity enthusiast, proficient in binary and web exploitation

 <https://samuzora.com>

 <https://github.com/samuzora>

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## Education

**PSLE** ————— 2013 - 2018

Attended **Maris Stella High School (Primary)**, graduated with a T-Score of 268

**IBDP** ————— 2019 - 2024

Attended **Anglo-Chinese School (Independent)**, graduated with 44 IB points

HL subjects:

- Maths AA
- Physics
- Chemistry

SL subjects:

- Lang Lit
- Economics
- Chinese B

Served as Vice-Chair of **Robotics Technology Society**, head of **Coding Competition Team**

Organized **HACK@AC CTF** 2022 and 2024

- Built a CTF platform using Next.js and Postgres to host HACK@AC, able to handle load of 400+ participants without downtime
- Handled infrastructure for platform and challenges using DigitalOcean and Docker
- Created web and pwn challenges

## Experience

**Intern, CSA** ————— Nov 2022 - Feb 2023

Interned at **Capability and Ecosystem Masterplanning Office** and researched the applications of emerging technologies in cybersecurity, such as novel malware analysis techniques using modified image classification models

Conducted an exploration of the applications of Large Language Models in red- and blue-team cybersecurity, including code analysis, incident response, and safer high-interaction honeypots

## CVEs

**CVE-2024-36361** ————— RCE in Pug v3.0.2

Discovered a bug in Pug JS compiler that, when certain conditions are fulfilled, allows the attacker to achieve remote code execution in the server.

NVD: <https://nvd.nist.gov/vuln/detail/CVE-2024-36361>

Publication: <https://samuzora.com/posts/cve-2024-36361>

**CVE-2024-40453** ————— RCE in Squirrelly v9.0.0

Discovered a bug in Squirrelly JS compiler that, when certain conditions are fulfilled, allows the attacker to achieve remote code execution in the server.

NVD: <https://nvd.nist.gov/vuln/detail/CVE-2024-40453>

Publication: <https://samuzora.com/posts/cve-2024-40453>

## CTFs

### 2021

MetaRed CTF ————— 1st place

Sieberrsec CTF ————— 3rd place

### 2022

Winja x Nullcon CTF ————— 3rd place

Youth Cyber Exploration Programme ————— 1st place

Bluehens CTF ————— 2nd place

Codegate Junior ————— 22nd in quals, 4th in finals

### 2023

Sieberrsec CTF ————— 1st place

Writeup: <https://samuzora.com/posts/sieberrsec-2024>

Cyberthon ————— 2nd place

Writeup: <https://samuzora.com/posts/cyberthon-2023>

Advanced Youth Cyber Exploration Programme ————— 3rd place

NUS Grey Cat the Flag ————— 6th place

Codegate Junior ————— 13th in quals, 7th in finals

The InfoSecurity Challenge ————— Levels 8/10 (14th place)

Writeup: <https://samuzora.com/posts/tisc-2023>

### 2024

Lag and Crash CTF ————— 1st place

Writeup: <https://samuzora.com/posts/lnc-2024>

Asian Cyber Security Challenge ————— 2nd in Singapore (30th in Asia)

Cyberthon ————— 3rd place

Codegate Junior Quals ————— 5th place

NUS Grey Cat the Flag ————— 1st place

Writeup: <https://samuzora.com/posts/grey-finals-2024>

The InfoSecurity Challenge ————— Levels 11/12 (2nd place)

Writeup: <https://samuzora.com/posts/tisc-2024>