Lucas Tan Yi Jie

CTF and cybersecurity enthusiast, proficient in binary and web exploitation

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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

Intern, Ensign Infosecurity — Feb 2025 - Apr 2025

Interned at **Ensign Labs** under the Vulnerability Research team. Conducted a VR exercise on a family of TP-Link routers, finding 1 undisclosed LAN-side vulnerability and 1 attack surface that can be chained with other vulnerabilities, both of which lead to remote code execution as root in the router.

Reverse-engineered and documented previously undocumented inner workings of the TP-Link router, aiding future research on similar router models.

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

2025

NUS Grey Cat the Flag — 1st place