

DUANMU CHUANJIE

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EDUCATION

River Valley High School

Singapore

Oct 2025

- **GCE A-Level:** 65/70 rank points
- **Coursework:** H2 Physics, Geography, Economics, Mathematics; H1 Chinese, GP, PW; Obtained Colours award

WORK EXPERIENCE

zcloak Network Ltd.

Intern, Full-Stack Development & AI Security Research

Jan 2026 – Apr 2026

- Shipped full-stack features for internal products, including frontend UI, backend APIs/services, and database integration.
- Researched LLM security topics, including prompt injection, model risk analysis, and practical deployment mitigations.

Digital Intelligence Service, Psychological Defence Group

Production Media Tech, full time national service

Jun 2026 – Apr 2028

RESEARCH EXPERIENCE

Nanyang Technological University (NTU) – Nanyang Research Programme

Student Researcher, Spin & Nanostructures Lab (SpiNlabs)

Mar 2024 – Jan 2025

- Designed and fabricated 130+ micron-scale spintronic devices by optical lithography, optimised and documented processes.
- Co-authored a paper validating a 2022 lab simulation on domain wall pinning, contributed physical data.

Nanyang Technological University (NTU) – Nanyang Research Programme

Student Researcher, Machine Learning for Maritime Safety

Sep 2024 – Jan 2025

- Co-authored a paper on container-ship risk prediction using XGBoost ($R^2=0.60$).
- Built PSC data pipelines using PyTorch, NumPy, and TensorFlow for cleaning, feature engineering, and preprocessing.

ScryonLabs

Cofounder, Cybersecurity Research Lab

April 2026 – Present

- Built [madelin](#), an artifact-driven Linux kernel fuzzing framework for converting static UAF candidates into guided syzkaller validation runs.
- Reported vulnerabilities across web engines and runtimes such as QuickJS-NG, Bun.js, and Ladybird Browser.
- Currently pending results from Google Cloud Vulnerability Reward Program.

LEADERSHIP & MENTORSHIP

River Valley High School Infocomm Club (RVCTF)

Vice-President

May 2024 – May 2025

- Developed and delivered a cybersecurity curriculum with hands-on challenges.
- Built the club website and vulnerable-by-design training apps for practical learning.

River Valley Mathematics Leaders Academy (MLA)

Head, Cryptography Interest Group

Sep 2024 – May 2025

- Researched and taught lessons on asymmetric cryptography such as RSA and ECC with problem sets.

SKILLS

Programming: Python, Ruby, C/C++, Assembly, SageMath, $\text{\LaTeX}$

Cybersecurity: Vulnerability Research, Fuzzing, Reversing, Penetration Testing, CTF

Tools: Radare2, Ghidra, IDA Pro, WinDbg, Kali Linux, CAD, KLayout, 3D Printing (Resin/FDM)

Laboratory: Optical Lithography, Semiconductor Design/Testing, Microscopy

Languages: English, Mandarin Chinese, German (A1)

AWARDS & SELECTIVE PROGRAMMES

Research: Nanyang Research Project Gold & Silver; Singapore Science and Engineering Fair 2025 Merit

Cybersecurity Olympiads: Represented Singapore at the International Cybersecurity Olympiad 2025 obtained Silver, International Rank 34; National Gold, Rank 8th

Special Programmes: Singapore Cyber Olympian Programme Member, Cyber Security Agency of Singapore; CSIT Youth Talent Programme, Windows Kernel Vulnerability Research & Pentest; DSO YDSP World of Science, AI

Academic Olympiads: Singapore Physics League Silver, 24th; Singapore Linguistics Olympiad Bronze

CTF Results: Grey26 Finalist; Brainhacks CDDC overall and explorer 2nd; GryphonsCTF 2nd; Whitehacks 9th; Lag & Crash 6th; GreyCTF 12th; TISC 2025 15th/1515, L9; BlahajCTF 5th; YBNCTF 3rd