Kuala Lumpur, Malaysia
Linkedin | Github

Chew Zhan Hong

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I am a software and security engineer especially interested in building reliable systems, analyzing and strengthening security, and developing innovative solutions across hardware, software, and networks.

Work Experience

Founder & CEO	**Behelit Systems**	**July 2025 - Present**
	Kuala Lumpur, Malaysia	

- Defined **strategic vision** and led red team, blue team, and hardware penetration engagements.
- Directed **R&D in exploit development** and **firmware security**, leveraging in-house AI-driven lab infrastructure.
- Founded **Cult of the LOLCOW (cLc)**, **Malaysia's first open-source hardware hacking community**.
- Built **global research partnerships** and **mentored junior security talent**.

IT Consultant	**AIA Malaysia**	**April 2023 – Sept 2023**
	Kuala Lumpur, Malaysia	

- Delivered **enterprise IT support**, resolving **500+ technical issues** with 95%+ satisfaction rate.
- Assisted in **patching vulnerabilities** and conducting **user access control reviews**.
- Strengthened enterprise network reliability through proactive diagnosis and troubleshooting.

Blockchain Developer Intern	**Gameconomy**	May **2022 – Aug 2022**
	Kuala Lumpur, Malaysia	

- Enhanced **Ethereum smart contracts** with RNG, batch minting, and Merkle Trees for secure airdrops.
- Researched **Zero-Knowledge Rollups** for advanced blockchain scalability.
- Configured and deployed **IBFT Private Blockchain Network** using Hyperledger Besu.
- Built Developer Console UI with **Angular, MongoDB, and Spring Boot**, improving platform usability.

Technologies and Languages

- **Languages:** Java, Go, Scala, Python, C, C++, Haskell, Solidity, Aarch64, HTML, CSS, Javascript, Typescript
- **Technologies:** Linux, Virtualization (KVM/QEMU, pfSense), Hyperledger Besu, MongoDB, PostgreSQL, Git, Docker, Active Directory Security, Astro, Next.js, Angular
- **Other:** Penetration Testing, Reverse Engineering, Hardware & Firmware Security, Exploit Development, Wireless & Signal-Based Attacks (SDR, BLE, RF), Applied Cryptography, Smart Contract Security

Education and Certifications

- **B.Sc. (Hons) Computer Science,** Sunway University. **Sept 2023 – Aug 2027**
- **Diploma in Information Technology,** HELP University. **Jun 2020 – Dec 2022**
- **Certificate in Information Technology,** Asia Pacific University. **Sept 2018 – Mar 2020**

Projects

Modular Cybersecurity Lab Architecture

- **Designed and deployed a modular pentesting lab using KVM/QEMU and pfSense firewall.**

- **Implemented network segregation (LAN/DMZ) for realistic enterprise attack/defense simulations.**

- **Integrated Active Directory, Dockerized web targets, and vulnerable VMs, enabling advanced red team training scenarios.**

Personal Portfolio Website

- **Designed and developed a personal portfolio site to showcase projects, research, and professional achievements.**

- **Implemented with modern web technologies (HTML, CSS, JS) and deployed using GitHub Pages.**

- **Demonstrates front-end development skills and ability to present technical work effectively.**

HelloARM64: ARM64 Assembly Curriculum

- **Developed a hands-on ARM64 assembly curriculum for macOS and Linux.**

- **Covered both bare-metal programming (syscalls) and C++ integration.**

- **Built a cross-platform build and debug toolchain using Make, Clang, and GCC to streamline teaching and research.**

Interests

- **I practice submission grappling and strength training three times per week.**

- **I take care of my cat, Whopper who is around one year old and is a tabby cat.**

- **I also enjoy hardware hacking and reverse engineering vintage electronics.**