# Nguyen Quang Vinh

https://icewizard4902.github.io/

**EDUCATION** 

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### • National University of Singapore

Singapore

Bachelor of Computing (Honours) in Computer Science

Aug. 2020 - May. 2024

• Relevant Coursework: Introduction to Cryptography, Computer Security, Operating Systems, Computer Networks Practice, Database Systems

# EXPERIENCE

• GuardRails Singapore

Security Engineer Intern

Dec 2022 - Present

- Wrote Semgrep rules to cover common vulnerabilities in softwares
- Reviewed and added improvements to the current vulnerability rules

# • Summer Research Project

National University of Singapore

Malware Analysis Researcher

• Assessed the landscape of obfuscation techniques and JavaScript-based malware

- Explored the use of Code Property Graph to understand the behavior of complex JavaScript malware
- Developed Overseer, a tool for analyzing JavaScript malware using sandboxed execution

## • Teaching Assistant

Singapore

National University of Singapore

Sep 2022 - Dec 2022

May 2022 - Aug 2022

- o Taught CS2107 (Introduction to Computer Security) for 30 undergraduate students
- Taught TIC2301 (Introduction to Computer Security) for 25 students
- Contributed extensively to the two courses. Received a letter of recommendation from the Professor

#### Training

• Cryptohack Cryptography

Top 250 Worldwide users

Dec 2022 - Jan 2023

- $\circ~$  Studied mathematical concepts behind commonly used cryptography schemes and constructions
- Studied about the pitfalls in cryptography, in Symmetric Ciphers, RSA, Diffie-Hellman, ECC
- Wrote extensive writeups about the solved challenges

• TryHackMe Pentesting

Top 50 Singapore users

Dec 2021 - Jan 2022

- Understood fundamentals of cryptography, malware analysis, application vulnerabilities, security operations & monitoring, forensics.
- Practiced using tools and frameworks employed in Red and Blue Teaming to solve challenges. Top 50 Singapore users by score.
- Studied CVEs, recent breaches and other cybersecurity events.

#### CTF COMPETITIONS

- ISITDTU 2022: Finished Top 7 in the finals with NUS Greyhats
- Grey Cat The Flag 2022: Finished Top 26.

#### Extracurricular Activities

• NUS Greyhats

Interest Group

Member

Sep 2022 - Dec 2022

- Participated in workshops about binary exploitation, cryptography, web vulnerabilities from the well-seasoned CTF players in the team
- $\circ\,$  Learnt new toolings in the respective workshops, and solved mini challenges inspired by the previous CTF challenges
- o Participated in CTF alongside the team