

# NG YAO DONG

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## EDUCATION

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**National University of Singapore** **Aug 2022 - Aug 2026**  
**Bachelor of Computing in Information Security (Honours)**

- GPA: 4.68 / 5.00
- Top student in CS3235 Computer Security

**Jurong Pioneer Junior College** **Jan 2018 - Nov 2019**  
**GCE 'A' Levels**

- Achieved 'Distinction' grade in the following 4 subjects: H2 Physics, H2 Chemistry, H2 Mathematics, H1 Economic
- Took charge of a team of 3 in Extra Curricular activity of Audio Visual Club, and led team-mates in ensuring major school events flow smoothly

## EXPERIENCE

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**Intern, DSTA, Singapore** **Jun 2025 - Jul 2025**

- Automated infrastructure setup with Terraform and Ansible, cutting provisioning time by 40% and reducing configuration errors.
- Provided 3 different solutions with Docker, Nutanix, Terraform and Ansible to solve the current deployment problems.

**Teaching Assistant, National University of Singapore, Singapore** **Aug 2023 - Present**

- Introduce students to computing device fundamentals in CS2100, basic security concepts in CS2107 and practical security methods in CS4238.
- CS2100: Teach topics such as data representation, circuit design, assembly language, processor cycles, pipelining, memory hierarchy, and input/output systems.
- CS2107: Teach topics such as cryptography, network security, web security, access control, and secure programming.

**Intern, DSTA, Singapore** **May 2024 - Aug 2024**

- Implemented DevSecOps practices in IoT device pipelines, reducing security vulnerabilities detected at deployment by 30%.
- Analysed LoRaWAN security protocols and executed penetration tests with Kali Linux and Wireshark, uncovering 3 critical flaws in key management and replay protection.

## CERTIFICATIONS

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- Google Professional Machine Learning Engineer Certification
- CS50x: CS50's Introduction to Computer Science
- AWS Cloud Practitioner

## TECHNICAL SKILLS

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- Programming Languages: C/C++ | C# | Java | Typescript/Javascript
- Cloud experience: AWS | Docker | Terraform | Ansible | Nutanix

## PROJECTS

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- Built a collaboration coding platform and deployed to public in CS3219.
- Created a game named "Boxhead Reloaded" as part of the NUS Orbital course.
- Took part and created a web game for NUS Hack&Roll 2024.

## **AWARDS & SCHOLARSHIP**

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- DSTA Merit Scholarship Recipient

## **ADDITIONAL INFORMATION**

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- Languages: English (Native), Mandarin Chinese (Native)
- Interests: Music, Table Tennis, Pool