

# WANG YANXIANG (ISABEL)

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## EDUCATION

### National University of Singapore (NUS)

Aug 2023 – Present

#### Bachelor of Computing (Computer Science)

- GPA: 4.71/5.00 | NUS School of Computing Scholarship
- Dean's List (Top 5%): Y1S1, Y2S2
- Awards: Top Student for Discrete Structures, A+/A for Software Engineering, Programming Methodology, Computer Networks, AI and Machine Learning

### Hwa Chong Institution (College)

Jan 2021 – Dec 2022

- Hwa Chong Diploma (Distinction), Outstanding Student Award, GCE 'A' Level 5 Distinctions

## WORK EXPERIENCE

### Portfolio / Engineering Intern, Republic (New York City)

Aug 2025 – Present

- Automated internal operations and migrated infrastructure to AWS
- Supported the US Platform team by resolving engineering tickets and contributing to system stability

### Software Engineer Intern, GovTech

May 2025 – Aug 2025

- Built an analytics dashboard enabling POs to generate reports and production support teams to query data efficiently
- Implemented CI/CD pipelines using Github Actions
- Set up AWS infrastructure with Terragrunt
- Collaborated in a scrum team, applying Agile practices to meet sprint milestones

### Full-Stack Developer Intern, Mavericks Consulting

Dec 2024 – Mar 2025

- Developed an employee management system using TypeScript, React and Express
- Supported end-to-end website migration and testing using Next.js, Directus, and AWS

## PROJECTS

### Freak-Cha | HackHarvard 2025, Funniest Hack Award

- Built Freak-Cha ([freakcha.com](http://freakcha.com)), a CAPTCHA-inspired challenge to distinguish humans from AI via facial expression recognition
- Developed a responsive Next.js + Tailwind frontend with real-time recognition using MediaPipe FaceMesh & YOLOv8
- Designed data collection and labeling workflows to train and improve model accuracy on human facial patterns

### SkillsLife | UBS Tomorrow's Talent Program '25

- Developed a full-stack web app with React, Django, TF-IDF and LightFM models to deliver course recommendations using content-based and collaborative filtering
- Integrated RAG with Deepseek + Langchain for efficient semantic search and fast content querying
- Implemented progress tracking and performance insights features to enhance user engagement

### TixSecure | DSTA BrainHack '25 Finalist

- Developed a secure mobile ticket-resale app with SwiftUI, using ZkSync for blockchain verification
- Integrated NFC capabilities for seamless on-site ticket scanning and validation

### NUS Software Engineering Project | Apollo 11 (Advanced) Certification

- Created a social meal planning mobile app for NUS students using React Native and Firebase
- Built real-time features for tracking meal requests, chat functionality and integrated geolocation services to foster community interaction

## EXTRACURRICULAR ACTIVITIES

### Software Engineer, Developer Student Club

Nov 2024 – May 2025

- Built a sponsorship and volunteer management system for an animal welfare non-profit

### Vice President (Internal), NUS Computing Code For Community

Aug 2024 – Nov 2024

- Led volunteers and developed a 10-week robotics and coding curriculum for underprivileged students

*Other leadership experiences: Organised NES Ground Zero '25, NUS Computing Career Launchpad '24 & Asian Business Plan Competition '24*

## **SKILLS AND ADDITIONAL INFORMATION**

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- **Languages:** Java, Python, JavaScript, TypeScript, Ruby, HTML, CSS
- **Frameworks/Tools:** React, React Native, Next.js, Express, Django, Ruby on Rails, Supabase, PostgreSQL, MongoDB, Docker, AWS
- **Written and Spoken Languages:** English, Mandarin