

WU ENJIA

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EDUCATION

- **National University of Singapore** Aug 2026 – Present
Bachelor of Computing in Computer Science with Mathematics (Double Major)
 - **Honours:** PSC (Engineering) Scholar
- **Ngee Ann Polytechnic** Apr 2023 – Apr 2026
Diploma in Information Technology (Software Engineering) cGPA: 4.00/4.00
 - **Honours:** CSIT Diploma Scholar, SCS Silver Medal & Prize, Diploma with Merit
 - **Leadership:** Head of Technology (Girls-in-Tech), Secretary (PVSIG Photography)

EXPERIENCE

- **GohVentures**  Mar 2025 – Present
Co-founder
 - Led technical projects from requirement gathering with clients to milestone delivery with developer teams
 - Built responsive web applications using React, integrating third-party and public-sector APIs
 - Managed Azure cloud infrastructure and built automated workflow pipelines for reliable operations
- **RSAF Agile Innovation Digital**  Jul 2025 – May 2026
AI Research Intern
 - Developed and fine-tuned a Singaporean aviation text-to-speech system for ATC training
 - Built a BCI interface using OpenBCI for EEG analysis, integrating webcam-based rPPG and pupillometry
 - Authored technical papers and presented research at AAAI, earning Runner-Up for Best Poster
- **Centre for Strategic Infocomm Technologies**  Mar 2025 – Jul 2025
Software Engineer Intern
 - Validated a 6-diode secure transfer design, raising throughput from 400 MB in 5 min to 400 MB in 45 s
 - Built 1,000+ automated tests to identify failure modes and optimize diode configuration
 - Developed a Telegram bot for remote triage, cutting routine on-site checks
- **Centre for Environmental Sustainability**  Aug 2024 – Oct 2024
Product Tester & Programmer — Internship (Part Time)
 - Built an ASP.NET Core MVC app on Raspberry Pi for a water-cooling system with real-time logging and health dashboards
 - Integrated Modbus telemetry and alerting hooks to reduce detection-to-action time
 - Contributed software showcased at the Built Environment Expo (BEX Asia) 2024 to industry partners

PROJECTS

- **Lux** Mar 2026
FastAPI, React, Socket.io, GFPGAN, Python 
 - Engineered a full-stack photobooth system bridging Sony mirrorless hardware via OBS virtual camera and AppleScript capture automation
 - Implemented an AI enhancement pipeline using GFPGAN for real-time face restoration, automated GIF generation, and cloud sync via Google Drive
- **Linked** Jan 2026
Plasmo, React, TypeScript, FastAPI, DeepFace 
 - Developed a Chrome MV3 extension using Plasmo and TypeScript to add discovery overlays and smart swiping directly onto LinkedIn
 - Integrated DeepFace for demographic profile filtering, GPT-4o mini for conversation starters, and Gemini Flash for couple image generation

- **Thonk**

FastAPI, React, Tauri, Python, OpenBCI

◦ Built a real-time Brain-Computer Interface (BCI) platform streaming 8-channel EEG signals with 3D visualization and motor imagery classification

◦ Implemented real-time webcam-based ocular feature extraction, including rPPG heart rate tracking and pupillometry analysis

Dec 2025


- HONORS AND AWARDS
- **ASEAN Investment Challenge**

2nd Place (Singapore), 4th (Region)

◦ Achieved 2nd place in Singapore and 4th regionally, competing as the only polytechnic team without a finance background

◦ Excelled in portfolio management and financial strategy against university undergraduates across the ASEAN region

Nov 2025

• **Dell InnovateFest 2025**

Champion

◦ Secured 1st place with "MindEase", a solution supporting caregivers and persons with intellectual disabilities

◦ Solution was featured on major news outlets (e.g., The Straits Times, Lianhe Zaobao)

Oct 2025



• **WorldSkills Singapore 2025**

Medallion For Excellence

◦ Selected as one of three students to represent Ngee Ann Polytechnic nationally in the IT Software Solutions for Business category

◦ Demonstrated proficiency in enterprise software development under rigorous competition standards

Apr 2025



VOLUNTEER EXPERIENCE

• **Lakeside Family Services**

Mentor

◦ Provided personalised instruction in Science, English, and Mathematics to enhance student understanding and academic performance

◦ Offered regular feedback and tailored teaching strategies to address specific learning challenges and boost student engagement

Jul 2024 – Present

• **Bo Tien Welfare Services Society**

Packer

◦ Supported weekly food rationing operations, packing essential supplies for timely distribution to elderly beneficiaries

Jun 2024 – Present

ADDITIONAL INFORMATION

Skills: Python, TypeScript/JavaScript, C#, C++, SQL, React, FastAPI, Git, Azure
Certifications: Professional Scrum Master™ I (PSM I), AWS Certified Cloud Practitioner, AWS Certified AI Practitioner
Interests: Muay Thai, Outdoor Activities, Photography