

Glenn Wu

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Education

Singapore Polytechnic

Diploma in Applied AI & Analytics

- Director's Honour Roll AY2023/2024
- Certificate in Advanced Mathematics

Apr 2022 – Apr 2025

GPA: 3.90/4.00

National University of Singapore

Bachelors in Computer Science

- AI Talent Scholarship

Matriculating Aug 2027

Olympiads & Hackathons

International Olympiad in Artificial Intelligence 2024 | Gold Medal (3rd Place)

Aug 2024

- Represented Singapore in the inaugural IOAI held in Burgas, Bulgaria, competing against 41 teams from 32 countries
- Solved complex AI challenges including unlearning semantic concepts in a Stable Diffusion model and training BERT from scratch on a novel language with limited compute budget

GeeksHacking HackOMania 2026 | Winner, GovTech track, awarded \$1000

March 2026

- Built PABand: a physical wristband, web-based dashboard, and caller interface, all within 24 hours to improve GovTech's Personal Alert Button (PAB) system for monitoring elderly residents in distress
- Built with Next.js, Socket.IO for basic VoIP, OpenAI Realtime API, FireRedASR for understanding Chinese dialects, Supabase, and a custom ESP32 wearable with 3D-printed enclosure

NUS Hackers Hack&Roll 2026 | Main prize (top 9/200+ teams)

Jan 2026

- Built an immersive 3D web app that transforms historical National Archive records into interactive 3D experiences.
- Integrated capabilities from Gemini 3 (document research, image colorisation & upscaling), Exa.ai (web search), OpenAI (text-to-speech), and Apple SHARP (3D gaussian splatting)
- Deployed with multiple online services (React frontend on Vercel, Node backend on Render, 3DGS service on Runpod)

DSTA BrainHack 2025 | Semi-finalist (top 16/100+ teams), Advanced track

Jun 2025

- Led the effort for solving the ASR (noised audio), OCR (corrupted and noised documents), and RL (pac-man-like) tasks
- Optimized, trained, fine-tuned, and deployed models (eg. NVIDIA Parakeet, CRNN, PPO)

NUS-RightShip Maritime Hackathon 2025 | Winner, Pre-University category, awarded \$3000

Jan 2025

- Created & presented a solution for implementing just-in-time optimization for ship arrival
- Demonstrated viability through a simulation of our proposed solution using real maritime traffic & port occupancy data

Work Experience

Republic of Singapore Air Force, Agile innovation Digital (RAiD)

Feb 2025 – Jun 2025

AI Engineer Intern

Singapore

- Created an on-device real-time speech diarization & transcription application and demo-ed to the Chief of Air Force
- Deployed multiple ML applications to an internal platform running on GCC 2.0

Oracle

Apr 2024 – Jan 2025

Backend Developer Intern

Singapore

- Created an automated testing solution in Python that streamlined the QA process and reduced manual testing overhead for the development team
- Developed and maintained various PL/SQL and Oracle APEX applications supporting sales operations, including knowledge-sharing platforms, event broadcasting systems, and for product demos

Skills

- **Programming:** Python, JavaScript, SQL, PL/SQL
- **AI & Machine Learning:** PyTorch, Scikit-learn, NLP, Computer Vision
- **Web Development:** Vue, React, Node.js, HTML/CSS
- **Languages (Human):** English, Mandarin Chinese

References

Available upon request.