

# Jun Wei Ng

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## EDUCATION

### National University of Singapore (NUS)

#### Master of Science, Business Analytics (MsBA) )

Aug 25 – Aug 26

- GPA: 4.88 / 5.00
- NUS Engineering Scholars Programme
- Recipient of DSO-AISG Incentive Award

#### Bachelor of Engineering (Civil Engineering), Honours

Aug 22 – May 25

- GPA: 4.67 / 5.00 (Highest Distinction)
- Minors: Computer Science, Data Analytics; Specialisation: Digitalisation of Urban Infrastructure
- Dissertation: Reinforcement Learning for Taxi Rebalancing to reduce congestion.
- Dean's List AY23/24 Semester 1 (Top 5% of cohort)

## WORK EXPERIENCE

### Data Science Intern, GovTech

Jan 26 – May 26

- Developed multimodal AI systems integrating fine-tuned detection models and vision-language models (RF-DETR, Gemini 3, Qwen-TTS/STT, Sam3), implementing multimodal RAG pipelines, prompt engineering, and agentic vision to enable reliable cross-modal reasoning.
- Architected end-to-end cloud infrastructure using Docker, AWS, and GCP, deploying scalable GPU-backed inference services for Whole-of-Government (WOG) web applications and edge AI (DGX Spark) use cases.
- Contributed to *GovTech Multimodal Hub*, productionizing multimodal AI capabilities for operational deployment.

### Data Scientist Intern, Tictag

Jun 25 – Aug 25

- Developed and deployed scalable deep learning models for computer vision, speech, and video analytics, delivering production-ready, customized AI solutions.
- Built and integrated modular ETL pipelines to fine-tune detection and pose estimation models for client-specific retail analytics, improving model adaptability and deployment efficiency.

### Teaching Assistant, NUS Computing

Aug 24 – Dec 25

- Teaching assistant for CS2040, Data Structures & Algorithms in Java for AY24/25 & AY25/26
- Placed on honour roll of student tutors

### Climate Models Analytics Intern, Defence Science and Technology Agency

May 24 – Aug 24

- Developed a Selenium and API-based data pipeline for automated real-time weather data retrieval and processing
- Enhanced rainfall intensity analysis in the Western Maritime Continent using SRGAN and RDN to improve resolution of satellite precipitation images

## SOFTWARE PROJECTS

### [FitSensei](#) – NUS Venture Initiation Programme

Ongoing | Python, Kotlin, Pose Estimation, ReactJS, Qwen

- Developed an AI-driven personal trainer app that provides feedback on weightlifting form using computer vision.
- Received funding of SGD 10,000 for future development and incubation at Block 71

## CO-CURRICULAR ACTIVITIES

### President, NUS Civil Engineering Club

Aug 23 – Aug 24

- Led, organized and managed events for over 400 Civil Engineering students in NUS such as CEE Day.
- Represented NUS in Asian Universities Alliance (AUA) Youth Forum 2024 in Hong Kong and was awarded Best Presenter on adoption of AI and technology to reduce food waste on campus.

## AWARDS

- Engineering Innovation Challenge 2023 & 2025 - Merit Award - The Institution of Engineers, Singapore
- College of Design & Engineering Innovation & Research Award (High Achievement)
- NUS Outstanding Undergraduate Researcher Prize (Group)
- IAHR-Singapore Hydraulics Medal (Top in cohort for hydraulics related modules)

## ADDITIONAL INFORMATION

- IT skills: Python, Java, R, PostgreSQL, JavaScript, HTML, CSS, PTV Vissim, MATLAB, Fusion360, GCP, AWS
- Languages: English (Written and Spoken, Native), Mandarin (Written and Spoken, Mother Tongue)