WILLIAM WEI

Academic, Builder, Creator, Developer, Educator.

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EXPERIENCE

TikTok Australia   *Sydney*, Australia
Backend Software Engineer   Mar 2025 – ...

- *(To be continued...)*

Monash University   *Melbourne*, Australia
Teaching Associate   Jul 2023 – Feb 2025

- Classroom academic for university unit on data structures, algorithms, discrete maths, and Python development
- Responsible for assessment design, curriculum, and academic consultations to cohorts of over 2000 students
- Nominated for the Education Excellence Award in 2023 by Faculty of IT

John Monash Science School   *Melbourne*, Australia
Co-curricular Facilitator   Feb 2024 – Nov 2024

- Extracurricular teacher and curriculum writer at selective STEM high school for digital circuits and engineering

EDUCATION

Monash University   *Melbourne*, Australia
Bachelor of Computer Science   Feb 2022 – Feb 2025

- **SPECIALISATION**: Advanced Computer Science, **MAJOR**: Software Development, **GRADE**: High Distinction
- **AWARDS**: Summer Research Scholarship (2023), Commendation of Excellent Academic Performance (2022, 2023)
- Past honours research student under Optimisation Research Group, Department of Data Science & AI

COMMUNITY

Monash Algorithms & Problem Solving   Jun 2022 – Feb 2025

- Branding designer, treasurer, and lecturer at Monash University's official faculty competitive programming team
- Delivered weekly workshop and competitions on essential programming, algorithms and data structure topics
- Organised, promoted, and composed competition problems for over 10 events with over 500 total participants

PROJECTS

Independent Translation and Subtitling Projects   Apr 2019 – Ongoing

- Founder and leader of team of 50 volunteers in closed-source translation and captioning for content creators with upwards to 3 million subscribers, working in multimedia editing, scanlations, and quality assurance
- Translated and proofread over 29 MB of raw text in over 3000 minutes of text-dense media footage
- Created plugins in Python and Lua powered by OpenAI's Whisper for specialised timestamping alignment
- Amassed a following of over 10,000 subscribers and 1 million views across multiple video-streaming platforms

Domain-Adaptable Multimodal Chatbot   Jul 2024 – Feb 2025

- Researched and developed visual question-answering chatbot in PyTorch powered by retrieval augmentation generation for improved content accuracy with discipline-specific generated responses
- Designed and implemented the model API and user interface for low-latency responses with multimodal inputs

SKILLS

PROGRAMMING: GoLang, Python, Java, C, C++, JavaScript, R, MiniZinc
TECHNICAL: Apache [Spark, Kafka], Docker, (My)SQL, PyTorch, TensorFlow
MEDIA: Adobe [Photoshop, Premiere Pro, After Effects, InDesign, Illustrator], Canva, FFMpeg, Figma

LANGUAGES: English (Fluent), Mandarin (Fluent), Cantonese (Native), Japanese (Conversational), German (Basic)

Last updated: 2nd of February, 2025.

"Where there's a "Will", there's a "Wei", kind of beautiful."