

MICHAEL S. WANG

📞 0416751630 ✉️ a0416517630@icloud.com 🌐 michaelwsd 📄 michaelwsd

EDUCATION

Monash University

Bachelor of Computer Science • Advanced Computer Science

Bachelor of Commerce • Econometrics

WAM: 87.185 (HD)

Feb 2023 - Nov 2026

Melbourne, Australia

EXPERIENCE

Monash University

Programming Bootcamp Tutor

- Delivered 10+ interactive Python tutorials to over 100 undergraduate and postgraduate students.
- Facilitated hands-on learning of algorithms and data structures, improved student engagement and comprehension.
- Provided 1:1 support during exercises to reinforce understanding and address individual learning needs.

Feb 2024 - Apr 2024

Melbourne, Australia

Mathematics Tutor

Ezy Maths Tutoring

- Tutored 15+ Year 12 students in Specialist Maths and Mathematical Methods.
- Designed tailored lesson plans to match individual learning styles and goals.
- Improved student results by an average of 20% through targeted support and practice.

Dec 2022 - Nov 2023

Melbourne, Australia

PROJECTS <CERTIFICATIONS>

ShelfAware <demo> | JavaScript, React, Firebase, Gemini API, Tesseract API

- One of nine winners of **UNIHack 2025** out of 700+ participants for co-developing a web app to reduce food waste by tracking grocery expiration dates.
- Led the integration of user authentication and **Firebase live database**, ensuring secure and efficient data storage.
- Leveraged OCR (Tesseract) to read receipts and **various APIs** (Gemini, Google Maps) to enhance functionality.

GitHub

Markdown to HTML Parser | Haskell, TypeScript, RxJS, REST API

- Developed a seamless Markdown-to-HTML parser, with back-end in **Haskell** and front-end in **TypeScript**.
- Leveraged **functional programming principles** to ensure efficient and reliable text conversion across platforms.

GitHub

Movie Vault <demo> | HTML, CSS, JavaScript, React, REST API

- Developed a movie discovery web app using **React** and **JavaScript**.
- Integrated the website with the TMDb API to fetch and display movie details dynamically.
- Implemented search and like functionality for users to find and save movies using **local browser storage**.

GitHub

Guitar Hero | HTML, CSS, TypeScript, RxJS

- Developed a rhythm game using **functional reactive programming** with RxJS in **TypeScript**.
- Implemented features such as song import functionality, scoring system, and multiplier mechanics.

GitHub

CO-CURRICULAR

- ESDA Software Engineer** at Monash Connected Autonomous Vehicle (2025)
- UNIHack Hackathon**, People's Choice Award (2025)
- IMC Launchpad Program** attendee (2024)
- Citadel Securities Discovery Program** attendee (2024)
- Jane Street SEE Program** attendee (2024)

SKILLS

- Programming:** Python, Java, TypeScript, R, SQL
- Web:** HTML, CSS, React, Node.js, PostgreSQL
- Tools:** Git, Linux, Bash
- Languages:** English (native), Chinese (native)

Monash University Unofficial Student Academic Record

Shengdie Wang

Student ID: 33899835

Course: BACHELOR OF COMMERCE AND BACHELOR OF COMPUTER SCIENCE (B2008)						
Category		Title		Code	Status	
SPECIALISATION		Advanced computer science		COMPSCI03	NOMINATED	
MAJOR		Econometrics		ECONOMTR05	NOMINATED	
Year	Unit code	Unit title	Teaching period	Credit points	Mark	Grade
2023	ACC1200	ACCOUNTING FOR MANAGERS	1	6	70	D
2023	BTC1110	COMMERCIAL LAW	1	6	82	HD
2023	FIT1045	INTRODUCTION TO PROGRAMMING	1	6	95	HD
2023	MAT1830	DISCRETE MATHEMATICS FOR COMPUTER SCIENCE	1	6	89	HD
2023	ECC1000	PRINCIPLES OF MICROECONOMICS	2	6	91	HD
2023	ETC1000	BUSINESS AND ECONOMIC STATISTICS	2	6	78	D
2023	FIT1008	INTRODUCTION TO COMPUTER SCIENCE	2	6	94	HD
2023	MAT1841	CONTINUOUS MATHEMATICS FOR COMPUTER SCIENCE	2	6	96	HD
2024	FIT3171	DATABASES	SB	6	84	HD
2024	ETC2410	INTRODUCTORY ECONOMETRICS	1	6	90	HD
2024	ETC2440	MATHEMATICS FOR ECONOMICS AND BUSINESS	1	6	90	HD
2024	FIT2004	ALGORITHMS AND DATA STRUCTURES	1	6	89	HD
2024	FIT2099	OBJECT ORIENTED DESIGN AND IMPLEMENTATION	1	6	94	HD
2024	ETC2420	STATISTICAL THINKING	2	6	86	HD
2024	FIT1047	INTRODUCTION TO COMPUTER SYSTEMS, NETWORKS AND SECURITY	2	6	89	HD
2024	FIT2014	THEORY OF COMPUTATION	2	6	93	HD
2024	FIT2102	PROGRAMMING PARADIGMS	2	6	85	HD
2024	BEX3723	ENGAGING WITH INTERNATIONAL BUSINESS - SINGAPORE AND MALAYSIA	SA-02	6	74	D
2025	ETC1010	INTRODUCTION TO DATA ANALYSIS	1	6	INCOMPLETE	
2025	ETC3250	INTRODUCTION TO MACHINE LEARNING	1	6	INCOMPLETE	
2025	ETC3410	APPLIED ECONOMETRICS	1	6	INCOMPLETE	
2025	FIT1049	IT PROFESSIONAL PRACTICE	1	6	INCOMPLETE	
2025	ETC3450	APPLIED TIME SERIES ECONOMETRICS	2	6	INCOMPLETE	
2025	FIT3143	PARALLEL COMPUTING	2	6	INCOMPLETE	
2025	FIT3155	ADVANCED DATA STRUCTURES AND ALGORITHMS	2	6	INCOMPLETE	
2025	MGC1010	INTRODUCTION TO MANAGEMENT	2	6	INCOMPLETE	
Grade point average (GPA) and Weighted average mark (WAM)						
Course				GPA	WAM	
BACHELOR OF COMMERCE AND BACHELOR OF COMPUTER SCIENCE				3.833	87.185	