

MICHAEL S. WANG

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in michaelwsd

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EDUCATION

Monash University

Feb 2023 - Nov 2026

Bachelor of Computer Science • Advanced Computer Science

Melbourne, Australia

Bachelor of Commerce • Econometrics

- WAM: 87.185
- Achievements: IT Excellence Scholarship

EXPERIENCE

Monash University

Feb 2024 - Mar 2024

Programming Bootcamp Tutor

Melbourne, Australia

- Conducted sessions introducing Python to undergraduate and postgraduate students.
- Covered topics including functions, loops, and data structures to establish strong foundational skills.

Mathematics Tutor

Dec 2022 - Nov 2023

Ezy Maths Tutoring

Melbourne, Australia

- Organized and prepared classes for year 12 students in Specialist Maths and Mathematical Methods.
- Developed a specialized teaching strategy catered to students.

PROJECTS

ShelfAware [Demo] | *JavaScript, ReactJS, Tesseract, Firebase, Gemini, REST API*

GitHub

- Worked in a team of six to develop a web app that reduces 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.

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

GitHub

- 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.

Movie Vault [Demo] | *ReactJS, HTML, CSS, JavaScript, REST API*

GitHub

- Developed a movie discovery web app using React (Vite), JavaScript, HTML, and CSS.
- 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 locally using browser storage.

Guitar Hero | *TypeScript, RxJS*

GitHub

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

EXTRACURRICULAR

- ESDA Software Engineer at Monash Connected Autonomous Vehicle (MCAV).
- UNIHACK Hackathon (2025).
- IMC Launchpad Program attendee (2024).
- Citadel Securities Discovery Program attendee (2024).
- Jane Street SEE Program attendee (2024).

TECHNICAL SKILLS

Selected Languages

Python, Java, JavaScript, TypeScript, SQL, R

Selected Tools

Git, Linux, Docker, Express.js, ReactJS, GCP, HTML/CSS

Spoken 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	