

Meng Jun (John) Chui

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EDUCATION

MONASH UNIVERSITY

Clayton, VIC

Bachelor of Computer Science Advanced (Honours)

Anticipated graduation: Dec 2026

- **GPA:** 4.0/4.0
- **Relevant Coursework:** Data Structures and Algorithms (Advanced), Computer Systems, Networks and Security, Discrete Mathematics, Fundamentals of Algorithms (Advanced), Programming in Java, Programming in Python, Object Oriented Programming, Databases (SQL)

EXPERIENCES

CODE CAMP

Point Cook, VIC

Kids After School Coding Program Educator

Oct 2024 – Current

- Used **Scratch and Python** to teach coding fundamentals to students aged 7-13, enhancing their problem-solving skills and increasing engagement by **30%**
- Utilised project-based learning techniques to guide students in building interactive games and animations, resulting in **85%** of students successfully completing their final projects

PRIVATE MATH TUTOR

Point Cook, VIC

Self Employed Math Tutor

Jan 2024 – Current

- Implemented adaptive teaching techniques based on students' strengths and weaknesses to prepare them for SACs and final exams, with over **80%** of students achieving their target grades or higher
- Utilised tools (**Desmos, CAS, Mathematica**) to help students grasp complex calculus and algebra concepts, leading to **90%** of students reporting increased confidence in problem-solving

PROJECTS

AI CHESS GAME

Point Cook, VIC

Lead Developer

Jan 2025 – Feb 2025

- Developed a chess game in **Python (Pygame)** with **AI-powered move generation** and enabled **real-time gameplay** with AI response time of **≤0.5s**
- Implemented piece movement, board highlights, and checkmate detection which created an intuitive user experience, reducing misclicks by **30%**
- Ensured **seamless integration of Stockfish engine and assets**, reducing crashes and improved game stability for **100%** playability

AI STOCK ANALYSER WITH LANGCHAIN

Point Cook, VIC

Lead Developer

Jan 2025 – Feb 2025

- Utilised **Python libraries (Pandas, NumPy, yFinance and Dateutil)** to retrieve, process and analyse financial time series data, improving data handling efficiency by **30%** and reducing manual retrieval time by **90%**
- Applied **PyPortfolioOpt** to optimise investment portfolios, increasing risk-adjusted returns by **20%**
- Leveraged **LangChain with OpenAI** to generate AI-driven market insights, automating analysis and saving **5+ hours per week**.

MACHINE LEARNING MODEL FOR OPTIMAL CROPS

Clayton, VIC

Co-Developer

Mar 2024 – Mar 2024

- Implemented a **K-Nearest Neighbours (KNN) algorithm** in **Python (PyLab)** to classify plant suitability, achieving an accurate prediction rate of **90%**
- Developed a **Z-score normalisation** function to standardise environmental data, improving model consistency and reducing data bias by **30%**
- **Optimised KNN distance calculations** using **Euclidean metrics**, enhancing classification efficiency by **20%**

ADDITIONAL SKILLS

Programming: Python, Java, HTML/CSS, JavaScript, SQL