Meng Jun (John) Chui

jobsmail9512@gmail.com | LinkedIn: Meng Jun Chui | +61 4 6937 1532 | GitHub: Meng Jun Chui | https://chojn.github.io/

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