KERUI (RYAN) HUANG

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SUMMARY

Highly motivated Computing and Software Systems student with proven experience in project coordination, process improvement, and collaborative problem-solving. Passionate about optimising workflows and enhancing efficiency, bringing a strong analytical foundation from a background in digital development. Excelling in team environments, eager to apply skills to drive service improvements and administer key projects.

ACADEMIC BACKGROUND

Bachelor of Design | Diploma in Languages (German Studies) Feb 2023 - Jun 2026
The University of Melbourne
- Major in Computing and Software Systems
- WAM: 86.857 (Bachelors)
- WAM: 89.000 (Diploma)

Victorian Certificate of Education Nov 2017 - Nov 2022
Mentone Grammar School
- ATAR of 99.65
- RAW 50 Study Score in Maths Methods and Further Maths
- Recipient of the Further Mathematics Premiers Award, VCE baccalaureate award
- Leader and Concertmaster of Mentone Senior Orchestra

EMPLOYMENT

Events Director Apr 2025 - Present
UniMelb Game Makers' Club, Parkville VIC 3010
- Led a 10+ member team in coordinating social events, venue bookings, and internal showcases.
- Led execution of 3+ major events in 2025 across production and general social divisions

Academic Tutor Apr 2023 - Dec 2024
Mentone Grammar School, 63 Venice St, Mentone VIC 3194
- Mentored 100+ students, tailoring strategies to improve understanding and concept mastery.
- Clarified 20+ complex concepts using relatable analogies and structured explanations.
- Contributed to a 25% increase in study-centre turnout by implementing targeted support programs.

Private Tutor Feb 2020 - Dec 2024
Self Employed, Melbourne, VIC 3000
- Delivered tailored tutoring to 20+ recurring students, addressing individual learning gaps
- Implemented 6+ study strategies, resulting in improved grades for 100% of students
- Provided consistent weekly support, boosting student averages by >15%

Hospitality, Bar, & Events All Purpose Staff Oct 2022 - Feb 2023
Melbourne River Cruises, Yarra River, Melbourne VIC 3141
- Collaborated with up to 10 staff members to meet guests' requests
- Led a 30% increase in positive reviews by streamlining event coordination across 50+ gatherings.
- Facilitated event activities, resource organisation and sanitation for up to 100 attendees

RELEVANT PROJECT WORK

Droning On – Drone-Based Parcel Delivery Simulation May 2025 – May 2025
University of Melbourne, Melbourne VIC
- Simulated **20+ drones** delivering parcels across **50+ suburban locations** using time-step simulation
- Designed state machine logic for **6 drone delivery states**
- Built priority-based access system reducing delivery delays by **30%**

- Logged and analysed **500+ deliveries** for performance metrics

Bookstore Data Processing & Recommendation System   Jun 2024 - Jun 2024
University of Melbourne, Melbourne VIC
- Developed a data-driven user recommendation system using BX community data
- Cleaned and preprocessed data from **18,000+ books** and **48,000+ users** in a 3-person team
- Implemented Feature Selection for **10 features** using Mutual Information
- Built supervised machine learning models (Decision Trees) with ~**77% accuracy** to predict user preferences

VOLUNTEER AND EXTRA-CURRICULAR ACTIVITY

Community Music Performer   Dec 2023 - Jan 2025
Warrawee Aged Care Facility, Bentleigh East VIC 3165
- Performed live music monthly as part of a 6-person team for senior citizens at Warrawee Community
- Contributed to increased resident engagement and mental wellbeing of 80+ residents, as reported by staff
- Developed teamwork and communication skills through 10+ collaborative performances
- Led group rehearsal sessions and discussions on a weekly basis

Youth Engagement Representative   Feb 2024 - Aug 2024
Glen Eira City Council, Melbourne VIC
- Advocated for youth perspectives in 8+ council meetings
- Contributed to insights across 22 focus areas, collaboratively reaching 5000+ Glen Eira residents
- Collaborated with 10 representatives to support policy feedback, benefiting 9000+ residents

AWARDS AND RECOGNITIONS

- Robert and Johanna Exiner Scholarship & Anita Rodgers Scholarship (Aug 2024)
- Top 3% Dean's Honours List (May 2024)
- Dunk Family Prize for LOTE (Feb 2023)
- Ekanayake Prize for Mathematics (Feb 2023)
- Premier's VCE Award (Jan 2022)

TECHNICAL SKILLS

- **Programming & Analytical Tools**: C, Python, Java, SQL, Matlab, C#, JavaScript; Pandas, Scikit-Learn, NLTK, Seaborn, Matplotlib, Re; MySQL, GitHub, Microsoft Office Suite
- **Core Computing & Design**: Data Structures, Algorithms, OOP, AI, Machine Learning, Statistics; UML, Figma, Unity. Applied to analytical problem-solving and system design.
- **Project Execution:** Experience in end-to-end project development and delivery: game development, data systems, Audio & Sound Design, demonstrating ability to plan, develop, and deliver.
- **Key Strengths:** Critical Thinking, Problem-Solving, Teamwork, Adaptability, Quick Learning, Process Optimization, and Collaborative Project Execution.

LANGUAGES

English   - Native proficiency
Chinese (Mandarin)   - Native proficiency
German   - Working proficiency | C1 Proficiency
Japanese   - Elementary proficiency

CERTIFICATIONS

- HLTAID003 Provide First Aid
- HLTAID003 Provide CPR
- Working with Children Check

REFEREES

- Betty Yung, Voice of Melbourne, (04) 1331 5713, Performance Coordinator
- Neda Ross, Glen Eira City Council, (03) 9524 3711, Youth Participation & Project Officer