

# Jin Chai

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## Education

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| <b>Macquarie University</b> , Master of Research in Data Mining  | Jan 2025 – Now      |
| <ul style="list-style-type: none"><li>International Research Excellence Road to Research Scholarship</li></ul>                               |                     |
| <b>The University of Queensland</b> , Master of Data Science   | Feb 2023 – Dec 2024 |
| <ul style="list-style-type: none"><li>GPA: 6.6/7.0</li><li>Dean's Commendation for Academic Excellence (2023 S1, 2024 S1, 2024 S2)</li></ul> |                     |

## Working Experience

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| <b>PIPP.ai</b> , Business Data Analyst Internship  | Brisbane, Australia<br>Apr 2024 - Aug 2024 |
| <ul style="list-style-type: none"><li>Managed and optimised database tables across 14 environments in Power Apps</li><li>Developed 15+ Power BI dashboards and reports for business datasets</li><li>Conducted in-depth research on 5 potential partners to support negotiations</li></ul>                       |  |
| <b>International World Wide Web Conference 2025</b> , Volunteer  | Sydney, Australia<br>May 2025              |
| <ul style="list-style-type: none"><li>Assisted speakers with slide checks and laptop setup, resolving technical issues</li><li>Supported session chairs by facilitating Q&amp;A and keeping sessions on schedule</li><li>Staffed the registration desk and guided attendees to rooms, and poster areas</li></ul> |  |

## Academic Projects

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| <b>Personalized Time of Interest For Active Sequential Recommendation</b>  | Jan 2025 – Nov 2025 |
| <ul style="list-style-type: none"><li>Pioneered joint modeling of users' time of interest and item of interest for sequential recommendation, enabling proactive reducing spam or irrelevant pushes</li><li>Designed training objectives that maximize mutual information between time and item interests, supported by rigorous theoretical derivations</li><li>Outperformed 8 state-of-the-art baselines across 5 datasets under two data split strategies, highlighting superior performance of model via extensive experiments</li></ul> |                     |
| <b>Synthetic Data Generation Model For Generating Non-IID Vehicle Trajectory Data</b>  | Feb 2024 – Nov 2024 |
| <ul style="list-style-type: none"><li>Pre-processed 14,000 real-world vehicle trajectories from three major US cities</li><li>Developed a synthetic data generation model using the WGAN-GP framework combined with LSTM and self-attention mechanisms to capture Non-IID effectively</li><li>Benchmarked the model against 3 state-of-the-art baselines, validated model performance through extensive experiments, highlighting significant improvements</li></ul>   |                     |
| <b>Practera Nano Digital Marketing Strategy</b>  | Jan 2024 – Feb 2024 |
| <ul style="list-style-type: none"><li>Collected more than 500 user interaction records from Koko Matrix's five social media platforms, constructed visual analysis using Tableau</li><li>Developed a data-driven digital marketing strategy for Koko Matrix using the 80/20 rule, achieving a 15% increase in social media visibility, engagement, and sign-ups</li></ul>  |                     |

## Skills

**Languages:** Mandarin (native); English (proficient, PTE 67/90)  
**Programming Languages:** Python (Pandas, sklearn, PyTorch, PySpark), R, MATLAB, SQL  
**Technologies:** PowerBI, Tableau, Excel, Microsoft Power Apps