

Theo Malaper

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PROFESSIONAL EXPERIENCE

- Sep-25 to Currently** (6 months) **Motu – Co-Founder/developer**
Primary tasks and responsibilities
- Building an AI travel platform with an LLM-based itinerary assistant trained on destination-specific knowledge, natural language trip planning, and third-party booking integrations
 - Full-Stack: React, FastAPI/Python, MongoDB, LLM API integration and RAG over curated knowledge
- Feb-23 to March-25** (2 years + 6 months non-compete) **Optiver – Quantitative trading firm**
Graduate software engineer – Member of the base trading team
Primary tasks and responsibilities
- Design machine learning algorithms and data pipelines to trade in India, generating ~20M AUD per year
 - Maintain multithreaded, low-latency applications publishing ~500k financial valuations per second
 - Develop and continuously enhance a high-frequency basket trading architecture used across Asia
- Learning outcomes**
- Gained experience in various software challenges e.g. data-at-scale, ML and distributed computing
 - Improved capacity to quickly grasp new concepts with daily software iterations being a standard practice
- Jul-22 to Oct-22** (4 months) **River Capital – Alternative investment fund**
Financial analyst intern – Assisting the credit, listed and private equity teams
Primary tasks and responsibilities
- Perform ad hoc analysis, company research and financial instrument valuation
 - Assist with building financial forecasts, data models and completing due diligence
- Learning outcomes**
- Obtained a deep understanding of valuation methods across different industries, including software
 - Learnt international accounting standards, financial modelling and data manipulation techniques
- Feb-22 to Jun-22** (5 months) **CSL Limited – Biotechnology company**
Software engineer intern - Assisting data scientists and PhD researchers
Primary tasks and responsibilities
- Implement an application to model the costs of their bioprocesses and scientific experiments
 - Collaborate with end-users to identify key requirements and enhance the usability of CSL's software
- Learning outcomes**
- Learnt to adapt efficiently to new technologies, processes and software architectures
 - Gained exposure to working on professional software projects in a collaborative environment
- Oct-21 to Jun-22** (9 months) **Phoebe Solutions – Health and technology start-up**
Software engineer intern – Assisting founder and lead engineer
Primary tasks and responsibilities
- Design and implement a testing framework for their optimisation engine
 - Manage multiple code environments focused on enhancing financial revenue management in hospitals
- Learning outcomes**
- Acquired intermediate knowledge of diverse programming languages, including Python, C, Java, SQL

EXTRACURRICULAR / VOLUNTEERING EXPERIENCE

- Feb-23 to Currently** **The Life You Can Save**
Pledged to donate 1% of my graduate salary to effective foundations recommended by the organisation
- Jan-21 to Nov-22** **Trinity College Outreach Committee**
Committee member and volunteer – Organised initiatives and fundraising at Trinity College
- Raised \$14000 for the 300 Blankets organisation, providing homeless support in Melbourne
- Mar-21 to Feb-22** **Trinity College Rugby Team**
Winger on the first XV of Trinity College at the University of Melbourne

EDUCATION

- Mar-20 to Nov-22** **University of Melbourne - Australia**
Bachelor of Science, First-Class Honours, 84 WAM, majoring in Computing and Software Systems
- Melbourne International Undergraduate Scholarship, awarded in 2022
 - Trinity College Undergraduate Scholarship, awarded in 2022
- Aug-19 to Nov-19** **Lighthouse Labs, Montreal - Canada**
Diploma in full stack software development
- Nov-15 to Nov-18** **Kristin School, Auckland – New Zealand**
International Baccalaureate Diploma

OTHER SKILLS

- Languages:** French (native), Spanish (conversational), English (fluent),
- IT Skills:** C++, Python, PySpark, LightGBM, C, Java, JavaScript, SQL, HTML, CSS, React, Ruby on Rails, MongoDB
- Hobbies:** Climbing, Running, Rugby (Trinity College, University of Melbourne), Diving (CMAS lvl 2)