

FINN GAN

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EXPERIENCE

- **Novel LLM Decoder Project, Melbourne University (Volunteer - Current)**
 - Research and assist the implementation of a new LLM Decoder Model from a Composite (Memory) Model perspective
 - Interact with High Performance Computing to perform training and testing (SLURM - Linux)
 - Implement testing using existing frameworks for the LLM (Python)
- **Temporal Memory in LLM Research with Complex Human Data Hub, Melbourne University (Internship)**
 - Wrangled experimental data (Python)
 - Wrote and maintained code for interacting with OpenAI's API (Python)
 - Conducted statistical analysis of results contrasting human responses against ChatGPT
 - [https://github.com/Gyp1127/episodic-GPT-research/blob/main/Temporal%20LLM%20\(1\).pdf](https://github.com/Gyp1127/episodic-GPT-research/blob/main/Temporal%20LLM%20(1).pdf)
 - Concluded that ChatGPT 3.5 Turbo was extremely sensitive to prompts and results suggested that there is a tradeoff between task accuracy versus mimicking human memory
- **Customer's Relations Management Software (IT Project)**
 - Led the Agile Ceremonies as SCRUM Master and supported the team as a backend developer
 - Interacted with the backend using SQL & Prisma, to communicate with the frontend through tRPC
 - Used the T3 stack (Next.js, Typescript, tRPC, Prisma, Tailwind CSS, NextAuth.js), Jira and Confluence
- **MediThon 2023 by Melbourne University Biomedical Engineering Society (Hackathon Winner)**
 - Designed a device that monitored the success of treatments (e.g., periodontal debridement) by investigating gum inflammation and making the process more accessible
 - Drove the ideation & business strategy of the device in the relevant market (Business Model Canvas)
 - Coded the Arduino to read the colour sensor (C++) which ported into a GUI (Python)
- **IBM Qiskit Hackathon 2022 (Hackathon Winner)**
 - Improved the code using the python music MIDI library and learnt to work with Qiskit
 - <https://medium.com/qiskit/turning-quantum-states-into-music-at-australias-first-ever-qiskit-hackathon-25da7f09d226>

EXTRA-CURRICULAR ACTIVITY

- **HackMelbourne — President & Hackathon Director (Oct 2021 – Sept 2023)**
 - Monitored internal departments (Hackathon Logistics, Education, Website, Marketing, Sponsorship, Student Engagement and the Executive Committees) whilst managing ongoing collaboration with many other clubs and external organisations
 - List of (executed/collaboration) events to date: Melbourne Hack '22, Hackiethon '22, Demystifying Startups, FEIT Ball '23, Scuffathon '23, Melbourne Hack '23, Universal Designed Sprint '23, Hackiethon '23
- **Women In Tech — Treasurer (Sept 2022 – Sept 2023)**
 - Oversee and assist with financial, applications and event related matters
 - List of (executed/collaboration) events to date: Resume Rework (w/ Macquarie), Free Crepes Gathering, Study Session, Networking High Tea and WIT Hackathon

EDUCATION

The University of Melbourne | 2021 - 2023

Bachelor of Science (Computing & Software Systems)

- **Awards**
 - Faculty of Engineering & IT Undergraduate Student of the Year (Top 3 Finalist - 2023)
 - Top100 Graduate Student of the Year (GradConnection and Commonwealth Bank - 2024)
- **Interest / Skillset**
 - Programming (Python, C, MySQL, Java, Haskell, JavaScript, TypeScript)
 - Domains: Computer Science (AI / ML / Quantum Computing), Psychology (Cognitive Science), Finance
 - Microsoft Azure Fundamentals (AZ900)
 - StartMate Winter Fellowship 2023 (Entrepreneurship)
- **Work Eligibility**
 - Valid Working Visa (Temporary Residence – Subclass 485) for 4 years
 - Intention to convert into Permanent Residency