

EDUCATION

Nanyang Technological University, Singapore Bachelor of Computing (Computer Science) <ul style="list-style-type: none">Expected Honours (Distinction)	Aug 2022 – Jun 2026 (Expected)
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INTERNSHIP EXPERIENCE & WORK EXPERIENCE

Synapse, Singapore Data Science & Artificial Intelligence Intern <ul style="list-style-type: none">Developed proof-of-concept PostgreSQL and MongoDB integration to improve completeness and comprehensiveness for complex queries for LightRAG to assess the feasibility, performance and scalability for large-scale production.Collaborated with a team of data scientists and engineers to enhance current Generative AI applications, by experimenting with different styles of Prompt Engineering, reviewing, debugging code and performing tests.Skills: Azure AI Services, Azure AI Document Intelligence, Azure DevOps, Azure CosmosDB, PostgreSQL, LangChain, LangGraph, Pydantic, Google Agent Development Kit, Ollama	Jan 2025 – Present
iStaging, Taiwan Artificial Intelligence Engineer Intern <ul style="list-style-type: none">Conducted comprehensive research and contributed to the development of a Generative AI Chatbot utilising Amazon Web Services (AWS) Transcribe, Bedrock, Polly and Translate.Enhanced Retrieval Augmented Generation (RAG) techniques to optimise search capabilities using AWS Bedrock Agents using Claude 3 Haiku, a large language model by Anthropic.Skills: AWS, Python, JavaScript, REST API, Prompt Engineering, Jira	May 2024 – Jul 2024

ACADEMIC PROJECT

Nanyang Technological University, Singapore Software Engineering - MacTaxi <ul style="list-style-type: none">Led the backend team, in designing and implementing APIs using design patterns while ensuring efficient and maintainable code applying the knowledge gained from the lectures.Used Postman as a proxy to streamline integration, understand external applications and enhance backend API debugging.	Jan 2024 – May 2024
Nanyang Technological University, Singapore Introduction to Data Science & Artificial Intelligence – Predicting If A Movie Will Win An Oscar <ul style="list-style-type: none">Performed data cleaning and analysis to optimise the creation of better models by removing unnecessary data.Leveraged Python to create and test models using Applied Decision Tree, K-Nearest Neighbour and Random Forest algorithms with RandomOverSampler, SMOTE and ADASYN to identify the highest accuracy in predicting winners.	Feb 2023 – May 2023

LEADERSHIP & CO-CURRICULAR ACTIVITIES

Nanyang Technological University, Singapore Hall 7 Council - Publications Secretary <ul style="list-style-type: none">Spearheaded a team of 19 sub-committee members and captured photo and videos of residents' activities, collaborating with other office holders to create lasting memories for residents.Implemented new media storage and manpower management system for efficient resident photo and video access.	Sep 2022 – Sep 2023
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PERSONAL PROJECTS

TelegramGPT A Telegram Chatbot inspired by ChatGPT and Open WebUI <ul style="list-style-type: none">Utilised libraries by OpenAI, Google and Anthropic along with REST APIs from Ollama to develop a Telegram Chatbot.Designed and implemented a user friendly navigation interface on Telegram enhancing usability and accessibility.	Link to Repository: https://github.com/lcwlouis/TelegramGPT
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SKILLS

Languages: Proficient in English, Chinese (Cantonese), Chinese (Mandarin) and Basic Singapore Sign Language
Programming: Python, Java, C, JavaScript, Typescript
Software Applications and Frameworks: CLion, IntelliJ, Visual Studio Code, Git, Postman, MongoDB, Express.js, React.js, Node.js, Next.js, MS SQL, REST APIs, Vue, Docker, Cloudflare, Linux, Google Agent Development Kit, LangChain, LightRAG