

CHEN Kang Ming

+65 9456 6054 | ckangming0@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

Nanyang Technological University, Singapore - Bachelor of Engineering (Computer Science) Aug 2020 – June 2024

- Achieved **Honours (Distinction)** – Second-upper Class Honours equivalent
- Elective Focus in **Artificial Intelligence** and **Data Science and Analytics**

INTERNSHIP EXPERIENCES

Central Provident Fund Board (CPFB) Jan 2023 - May 2023

Product Development Intern

- Spear-headed the initiation of the team's ML/LLM stack, developing a conversational question-answering (QA) system prototype for CPF-related queries.
- Developed a website scraper to sanitise public-facing information about the Board, for training and context-driving the QA prototype.
- Chaired talks and developed material for CPF staff, upper management and executives on the use of LLMs in the workplace
- Engaged in full-stack application development for a document-generation and templating product, improving workflow for multiple agencies and stakeholders within the Government.
- Skills:** GPT-related APIs/Technologies, Generative AI, Next.js, Python, MongoDB, JavaScript, Web Scraping

ACADEMIC PROJECTS

Final Year Project – Crowd Estimation in Images Aug 2023 - May 2024

- Worked on improving transformer-based crowd estimation models for localized crowd estimation evaluation (report for view [here](#))
- Achieved up to 33% increase in performance from base model, with quick inference times and high accuracy
- Skills:** Transformers, Computer Vision, Image Recognition

Software Security Assignment – Capture the Flag Challenge Jan 2024 - Apr 2024

- Worked on steganography-, SQL-injection- and web-based capture-the-flag challenges
- Successfully completed all challenges ranking in the top quartile of teams in time, attaining A+ for the subsequent report
- Skills:** Web Exploitation, Steganography, SQL-injection, Security Principles, Security Testing

Machine Learning Project - Tackling the Zillow Zestimate Aug 2023 - Nov 2023

- Worked on improving Zillow's Zestimate for housing prices, employing a mixture of gradient-boosting and traditional machine learning models
- Achieved **top 7% of submissions** (93rd. percentile) based on competition leaderboard
- Skills:** Machine Learning, Data Processing/Analytics, Feature Engineering, Gradient Boosting

Natural Language Processing Project - Question Classification Aug 2023 - Nov 2023

- Worked on *word2vec* models such as Google-News, as well as preprocessing and sanitization of datasets
- Developed a question classifier leveraging recurrent neural networks such as LSTM and GRU, obtaining **high validation and test accuracies** against test benchmarks
- Skills:** Natural Language Processing, Data Analytics, Recurrent Neural Networks (RNN)

Undergraduate Research Experience on Campus (URECA) – Offline Reinforcement Learning Aug 2021 - Jun 2022

- Conferred 'President Research Scholar' upon completing URECA with distinction
- Provided suggestions on future expansions and use-cases of offline reinforcement learning, with a focus on scalability and real-world practical solutions (report for view [here](#))
- Skills:** Deep/Offline Reinforcement Learning, Python

CO-CURRICULAR ACTIVITIES

Jam Band Captain, Tanjong Hall of Residence Sep 2021 – May 2024

- In charge of the overall planning, logistics and organization of events and practices for the Jam Band
- Led Jam Band members through various school- and organizational-level performances with stellar feedback

SKILLS

Spoken/Written Languages: Fluent in English and Chinese, conversant in Cantonese, basic understanding in French and Japanese

Programming Languages: Python, JavaScript, React, Next.js, C, MongoDB, SQL