Kalyakorn Anansiriprapha (Wenying Li)

(+86) 15101113207 | liwenyin20@mails.tsinghua.edu.cn | https://kalyakorna.github.io/ | Beijing

EDUCATION

Tsinghua University, Department of Computer Science and Technology

Sep 2020 – Present

Bachelor of Engineering

Beijing, China

- 2020 Beijing Government Scholarship
- Coursework: Data Structure, Machine Learning, AI, Data Mining, Deep Learning, Web Development, Computer Network

Shrewsbury International School Bangkok

Sep 2018 - July 2020

Senior High School

Bangkok, Thailand

- A-LEVEL Grades: Computer Science (A*), Mathematics (A*), Physics (A), Mandarin (A)
- UKMT Senior Mathematical Challenge 2018 awarded BRONZE Certificate (Top 50%)
- UK Bebras Challenge 2019 (Computational Thinking Challenge) awarded Certificate of MERIT (Top 50%)

SKILLS

Language English (*IELTS 7.5*), Chinese (*HSK6*), Thai (*Native*)

Technical Python, SQL, Git, LaTeX

Interests Badminton and Basketball (Tsinghua CS Department Teams), Tennis, Brazilian Jiujutsu, Snowboarding, Piano

INTERNSHIP

Trexquant Investment LP

Aug 2024 - Oct 2024

Quantitative Alpha Researcher

Beijing, China

- Conducted quantitative research on financial data, identifying patterns with alpha-generating potential.
- Created Event-Driven Alpha signals by analyzing corporate events, capturing abnormal market behavior.
- Proposed and implemented an NGBoost model for Earnings Prediction, achieving a significant improvement in accuracy.

Agrose Technology

Jun 2023 – Sep 2023

Test Engineer Intern

Beijing, China

• Conducted comprehensive testing of AIDI products using C++, ensuring functionality, stability, and performance.

Obodroid Corporation

Jul 2022 – Sep 2022

Visual Urban Robot Navigation

Bangkok, Thailand

• Developed navigation systems for service robots and wheelchairs using ROS at Bangkok's Bang Sue Grand Train Station.

Bank of Ayudhya PCL.

Jul 2019 – Aug 2019

Digital Banking and Innovation

Bangkok. Thailand

- Assisted in the development of the mobile banking application to improve user experience and increase active user engagement.
- Collaborated with UX/UI designers and developers to ensure smooth implementation of new features and app performance.
- Coordinated promotional campaigns with Pizza Hut and McDonald's, integrating exclusive deals to attract and retain users.

RESEARCH

Research on RAG Optimization based on SAGE-RAG Framework

Dec 2024 - Present

Advisor: Prof. Guoliang Li, Database Research Group, Tsinghua University

- Investigating Retrieval Optimization techniques within the SAGE-RAG framework, focusing on improving retrieval precision, efficiency, and cost-effectiveness in RAG systems.
- Proposed Multi-Hop Retrieval strategies to enhance cross-document reasoning and improve retrieval recall.

PROGRAMMING PROJECTS

Sign Language (ASL) to Text Translation

Python (Pytorch, Scikit-Learn)

Sep 2024 - Dec 2024

• Developed an ASL-to-text translation using CNN and StarNet, achieving over 99% accuracy on a dataset of 87,000 images.

GPT-4 based AI Travel Planner

React, Typescript, CSS, HTML

Feb 2024 – Jun 2024

• Developed a GPT-4 AI-powered tool to generate personalized travel itineraries, integrating APIs for booking flights, hotels, etc.

ACTIVITIES

Tsinghua Thai Student Association

Head of Activity Coordinator

Aug 2022 - Jul 2023

• Organized cultural exchange events and coordinated club collaboration to foster friendships between internationals and locals

Thai-Chinese Student Association

Associate IT Team Leader

Feb 2022 – Feb 2023

- Coordinated with the Thai embassy during the 2019 pandemic to negotiate assistance for students affected by the pandemic
- Developed membership database and association website using React Typescript, Google Firebase and MongoDB database