Kalyakorn Anansiriprapha (Wenying Li)

+86 15101113207 | nip.kalyakorn@gmail.com | Beijing

Education

Sep 2020 – Present	Tsinghua University	Computer Science and Technology	Bachelor of Engineering

- 2020 Beijing Government Scholarship
- **Coursework:** Machine Learning, AI, Data Mining, Deep Learning, Web Dev, Data Structures, OS, Computer Arch., Network

Sep 2018 – July 2020	Shrewsbury International School Bangkok	A-LEVEL	Senior High School

- Computer Science (A*), Mathematics (A*), Physics (A), Mandarin (A)

Internship Experience

Aug 2024 – Oct 2024	Trexquant Investment LP	Quantitative Alpha Researcher	Beijing, China

- Created event-driven trading signals (alphas) that capture abnormal patterns in key metrics around corporate events, generating profitable opportunities where benchmarks show no predictive signal.
- Developed a *machine learning model* to create an optimal combination of alphas, successfully proposed the NGBoost model to outperform the benchmark while performing feature engineering, hyperparameter tuning and modifying the loss function.

Jun 2023 – Sep 2023	Aqrose Technology	Test Engineer Intern	Beijing, China

- Responsible for comprehensive testing of AIDI products including functional verification and performance evaluation.
- Implement effective test strategies using *C++*, and conduct in-depth reasoning tests for parallel or series functional modules.

Jul 2022 – Sep 2022	Obodroid Corporation	Information Technology Intern	Bangkok, Thailand

- Deployed navigation robots and wheelchairs using *ROS* at Bangkok's Bang Sue Grand Train Station.
- Worked with customers and developers to enhance navigation systems and conducted testing of the robots in various scenarios.

Jul 2021 – Aug 2021	Bank of Ayudhya	Digital Banking and Innovation	Bangkok. Thailand

- Responsible for upgrading the UX/UI and increasing the active user base of the mobile banking app.
- Coordinated promotional campaigns with client brands like Pizza Hut and McDonald's.

Programming Projects

Feb 2024 – Jun 2024	GPT-4 based AI Travel Planner	*React, Typescript, CSS, HTML*

- Developed a GPT-4 AI-powered tool to generate personalized travel itineraries, integrating APIs for booking flights, hotels, etc.
- Responsible for designing a frontend interface using Ant Design framework. ***Received Final Grade A***

Sep 2023 – Dec 2023	5-Stage RISC-V Pipeline	*SystemVerilog, x86 Assembly*

- Designed and implemented a five-stage pipeline RISC-V CPU supporting RV32I instruction set
- Integrated features such as memory access, serial communication, interrupt handling, and virtual memory management

Sep 2023 – Dec 2023	Image Generation and Completion	*Python, Jittor, OpenCV*

- Implemented image generation VAE and GAN based on neural networks
- Developed a scene completion system with *BFS, FFT, OpenCV Dilation, Graph-Cut, Poisson Blending* to achieve realistic image

Feb 2023 – Jun 2023	Chinese Pinyin to Character Converter	*Python*

- Developed a Pinyin-to-Chinese character converter using *Bag-of-words models, Viterbi algorithm and a bigram model*

Feb 2023 – Jun 2023	Sentiment Analysis	*Python*

- Developed a sentiment analysis tool using *CNN, RNN, and MLP* to analyze and infer emotional tones in review data

Service Experience

Sep 2023 – Present	Tsinghua Work-Study Program	Dorm. Representative	School Hospital Assistant
Aug 2022 – Jul 2023	Tsinghua Thai Student Association	Head of Activity Coordinator	

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

Feb 2022 – Feb 2023	Thai-Chinese Student Association	Associate IT Team Leader

- 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*

Technical Skills and Interests

Language Proficiency	English (IELTS 7.5), Chinese (HSK6), Thai (Native)
Programming	Python, C++, Rust, x86 Assembly, React, Typescript, HTML, CSS
Software	Microsoft Office, MATLAB, LaTeX, Git
Interests	Basketball and Badminton (Tsinghua University CS Department Teams), Brazilian Jiu Jitsu, Piano