PO-YU CHEN

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Looking for a software engineering internship opportunity where I can leverage my skills and passion in C/C++, operating systems, networking, and machine learning to gain hands-on experience and make a valuable contribution to the team.

EDUCATION

National Taiwan University (NTU)

- *M.S.* in Electrical Engineering, GPA: 4.20/4.30, Class Rank: 2/24 — *Sep. 2022 - Jun. 2024(Expected)*
- *B.B.A.* in International Business, GPA: 3.82/4.30 — *Sep. 2017 - Jun. 2022*
- *B.B.A.* in Information Management, *Double Major* — *Sep. 2017 - Jun. 2022*
- Relevant Coursework: Data Structures, Algorithms, Operating System, Computer Networks, Computer Architecture, Database Management, Machine Learning, Deep Learning for Computer Vision, Fault Tolerant Computing

SKILLS

Technical	Familiar: C/C++, Python, PyTorch, CMake, Git, Unix/Linux, GNU toolchain
	Experienced: Docker, CUDA, Multi-thread/Heterogeneous/Parallel/Socket Programming
Language	Mandarin (Native), English (Intermediate), Janpanese (Beginner)

WORK EXPERIENCE

Awesome Research - *Crypto hedge fund startup formed by 15 undergraduates from NTU EE/CS* — *Jan 2022 - Sep 2022*
Software Engineer and Quantitative Trader — Taipei, Taiwan

- Led a 5-person team to design RESTful/WebSocket API and develop toolkits for crypto trading with the help of Boost C++ Libraries, C++ REST SDK and OpenSSL in test-driven development process
- Maintained projects with shell scripts, CMake, Git, and Conan, a C/C++ package manager
- Reviewed codes and wrote test cases using to keep high code coverage
- Implemented and deployed a high-frequency arbitrage strategy using modern C++

PROJECTS

Byzantine Distributed Optimization on Non-linear Constrained Problem (LINK) — *Oct, 2022 - Jan, 2023*

- Collaborated with colleagues from department of mathematics to proposed a new optimization algorithm
- Implemented the algorithm independently, and conducted experiments to validate the effectiveness

3D Indoor Scene Long Tail Segmentation — *Nov, 2022 - Jan, 2023*

Trademark Retrieval Mobile App (Google Play/App Store) — *Feb. 2021 - Jan. 2022*

- Built a CNN-based model to learn representations from images for downstream image retrieval task.

Secure P2P Micro-payment System — *Nov. 2021 - Jan. 2022*

- Built client/server that communicated through secure TCP/SSL socket with C++, with all communications encrypted by OpenSSL toolkits.
- Used a job queue and thread pool to enable the server to handle multiple connections in parallel, and used mutex, condition variable to guarantee thread-safety and non-busy waiting.

Product Recommendation System for Fubon Financial Holding Co., Ltd. — *Feb. 2021 - Jun. 2021*
Built a recommendation system to assist the precision telemarketing, to improve the sales performance and to reduce the labor cost. Used ensemble and over-and-under-sampling techniques to make the AUC score equally matched with the real inner system adopted by Fubon.

EXTRA-CURRICULAR ACTIVITIES

National Taiwan University Guitar Club, *Education Officer* — *Sep. 2020 - Jun. 2021*

Taipei Medical University 36th Guitar Competition, *Finalist* — *Nov. 2019 - Dec. 2019*

National Taiwan University Orientation Camp, *Camp counselor* — *Jun. 2019 - Aug. 2019*