PO-YU CHEN

+(886) 983-960-657 ⋄ slimon0216@gmail.com ⋄ GitHub

Looking for a software engineering internship opportunity where I can leverage my skills and passion in programming, computer systems, and machine learning to 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 Experienced: GNU toolchain, Docker, CUDA, Multi-thread/Heterogeneous/Parallel/Socket Programming
Language	Mandarin (Native), English (Intermediate), Japanese(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 toolkit 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
- Refactored codes and wrote cases to achieve loose coupling and high code coverage
- Analyzed and optimized codes using Google Benchmark, and debugged with GDB and sanitizer
- Implemented and deployed an automated arbitrage strategy independently using modern C++

PROJECTS

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

- Implemented algorithms proposed by colleagues and conducted experiments independently to using python(SciPy)

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 and multithreaded server, which communicated in CLI through secure TCP/SSL socket with C++, with all communications encrypted by OpenSSL toolkits.

Product Recommendation System for Fubon Financial Holding Co., Ltd. — *Feb. 2021 - Jun. 2021*

- Built a recommendation system to assist the precision telemarketing, using ensemble and over-and-under-sampling techniques to achieve AUC score equally matched with the real inner system adopted by Fubon.

EXTRA-CURRICULAR ACTIVITIES

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

- Held classes weekly and taught guitar in front of hundreds of club members

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

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