

PO-YU CHEN

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OBJECTIVE

Seeking a software engineering internship opportunity where I can leverage my skills and passions in programming, computer systems, machine learning and problem solving 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, Statistical Learning and Deep Learning, Deep Learning for Computer Vision

SKILLS

Technical C/C++, CMake, Git, Unix/Linux, Python, PyTorch, GNU toolchain, Docker, CUDA
Language Mandarin (Native), English (Intermediate)

WORK EXPERIENCE

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

- Led a 5-person infra team to develop C++ toolkit to support trading and research teams
- Wrote a script to automate the build and testing process, resulting in a more efficient and streamlined development workflow
- Refactored tightly-coupled codes and eliminated duplications to enhance the reusability and maintainability
- Reduced the system build time by over 50% by adopting a compiler cache to avoid unnecessary recompilations
- Increased test coverage from 40% to 90% by writing unit tests using tools like GoogleTest
- Implemented an automated arbitrage strategy in C++ independently, with well-designed error and signal handling mechanism, resulting in consistent profits for the company

PROJECTS

Byzantine Distributed Optimization on Non-linear Constrained Problem ([Paper with Code](#)) *Oct, 2022 - Jan, 2023*

- Collaborated with lab colleagues, implemented the proposed algorithms and conducted experiments using python

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

- Built a CNN-based model to learn representations through a multi-label classification for downstream image retrieval task

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

- Built client and multithreaded server that communicated through secure TCP/SSL socket using C++, with all communications encrypted by OpenSSL toolkit

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

- Used ensemble and over-and-under-sampling techniques to build a model with high AUC score that 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*