

# Po-Yu Chen

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## Summary

A highly motivated graduate with a deep passion for programming and learning new technologies. Actively seeking a software engineering role to apply extensive computer science knowledge and problem-solving skills, to deliver valuable contributions.

## Education

### National Taiwan University

M.S. IN ELECTRICAL ENGINEERING

Taipei, Taiwan

Sep. 2022 - Jun. 2024 (Expected)

- GPA: 4.20/4.30
- Research Interests: High Performance Computing, Parallel Graph Algorithms on GPUs

### National Taiwan University

B.B.A. IN INFORMATION MANAGEMENT & INTERNATIONAL BUSINESS | DOUBLE MAJOR

Taipei, Taiwan

Sep. 2017 - Jun. 2022

- GPA: 3.82/4.30
- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Cloud Native Application Development, Machine Learning, Cyber Security, Computer Vision

## Work Experience

### MediaTek

Hsinchu, Taiwan

SOFTWARE ENGINEER INTERN, **TECH STACK: C++, BAZEL, PROTOBUF**

Jul. 2023 - Aug. 2023

- Enhanced the 5G modem profiler by introducing new visualization features, benefiting over 100 colleagues
- Developed a parser that serializes data into Google's Protocol Buffers format, seamlessly integrating with Google's Perfetto Trace Viewer UI, thereby enabling more effective analysis and debugging of performance issues

### A&R Research Capital (Crypto Quantitative Fund)

Taipei, Taiwan

FOUNDING MEMBER, SOFTWARE ENGINEER & QUANTITATIVE TRADER, **TECH STACK: C++, CMAKE, GOOGLETEST, DOCKER**

Jan. 2022 - Sep. 2022

- Led a 5-person infrastructure team to develop tools for crypto trading, utilizing a Test-Driven Development (TDD) approach
- Engineered a high-frequency trading strategy in C++, with robust error and signal handling mechanisms, yielding consistent profits
- Automated the build and testing processes by scripting, achieving a more efficient and streamlined development workflow
- Elevated test coverage from 40% to 90% by writing unit tests utilizing GoogleTest
- Refactored tightly-coupled codes and eliminated duplications to enhance the reusability and maintainability

## Projects

### Trademark Retrieval Mobile App - Google Play/App Store

Taipei, Taiwan

**TECH STACK: PYTORCH, POSTGRESQL**

Feb. 2021 - Jan. 2022

- Crawled the labels for trademark image and maintained a postgresql database to store the data
- Fine-tuned a ResNet-based model on the trademark data to learn image representations through a multi-label classification task, enabling downstream image retrieval task

### Secure P2P Micro-payment System

Taipei, Taiwan

**TECH STACK: C++, LINUX TCP SOCKET, MULTITHREADS PROGRAMMING**

Nov. 2021 - Jan. 2022

- Built client and server that communicated through secure TCP/SSL socket in a producer-consumer scheme using C++ std thread api

### Product Recommendation System for Fubon Financial Holding Co., Ltd.

Taipei, Taiwan

**TECH STACK: PYTHON, SCIKIT-LEARN, MACHINE LEARNING**

Feb. 2021 - Jun. 2021

- Used ensemble and over-and-under-sampling techniques to build a classification model with high AUC score that equally matched with the real inner system adopted by Fubon

## Skills

<b>Programming</b>	C/C++, Python, Cuda, Bash, Node.js
<b>Tools</b>	Git, Unix/Linux, Docker, Gdb, CMake, Bazel
<b>CS Domain</b>	OS, Computer Architecture/Network, ML/DL, Parallel Programming
<b>Misc</b>	PyTorch, LaTeX, SQL, Express, React
<b>Language</b>	Mandarin (Native), English (Fluent)