

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

Taipei, Taiwan

M.S. IN ELECTRICAL ENGINEERING

Sep. 2022 - Jun. 2024 (Expected)

- GPA: 4.20/4.30
- Research Interests: High Performance Computing, GPU Parallel Programming

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

Sep. 2017 - Jun. 2022

- GPA: 3.82/4.30
- CS Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Database, Machine/Deep Learning, Data Science, Cyber Security, Computer Vision, Fault-Tolerance Computing

Work Experience

MediaTek

Hsinchu, Taiwan

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

Jul. 2023 - Aug. 2023

- Enhanced the 5G modem profiler by adding new features for visualization of CPU profiling and tracing results
- Devised a parser that serializes the data into Google's Protocol Buffers format for integration with Google's Perfetto Trace Viewer UI, facilitating more effective analysis and debugging of performance issues

Awesome Research

Taipei, Taiwan

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

Jan. 2022 - Sep. 2022

- Led a 5-person infra team to develop tools to facilitate crypto trading in a test-driven development process
- Implemented an C++ high-frequency trading strategy, with well-designed error and signal handling mechanism, resulting in consistent profits for the company
- Automated the build and testing process by writing scripts, resulting in a more efficient and streamlined development workflow
- Increased test coverage from 40% to 90% by writing unit tests with 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

Programming

C/C++, Python, Cuda, Bash, Node.js

Tools

Git, Unix/Linux, Docker, Gdb, CMake, Bazel

CS Domain

OS, Computer Architecture/Network, ML/DL, Parallel Programming

Misc

PyTorch, LaTeX, SQL, Express, React

Language

Mandarin (Native), English (Fluent)