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 - Sep. 2023 (Expected)*

- Leveraged Google's Perfetto platform to add 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)