PO-YU CHEN

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OBJECTIVE

Seeking a software engineering position where I can leverage my skills in programming, computer systems, machine learning and problem solving to make valuable contributions to the team

EDUCATION

National Taiwan University (NTU) **Taipei, Taiwan**

- 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: Operating System, Computer Networks/Architectures, Machine Learning, Computer Vision

SKILLS

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

WORK EXPERIENCE

MeidaTek **Hsinchu, Taiwan**
Software Engineer Intern July 2023 - Sep 2023 (Expected)

- Developed a parser to transform CPU profiler and tracer outputs into Google's protobuf format, enabling in-depth visualization and analysis using Google's Perfetto Trace Viewer

Awesome Research **Taipei, Taiwan**
Software Engineer and Quantitative Trader *Jan 2022 - Sep 2022*

- Led a 5-person infra team to develop C++ toolkit to support trading and research teams
- Implemented an automated arbitrage strategy in C++ independently, with well-designed error and signal handling mechanism, resulting in consistent profits for the company
- Wrote a script to automate the build and testing process, resulting in a more efficient and streamlined development workflow
- 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
- Refactored tightly-coupled codes and eliminated duplications to enhance the reusability and maintainability

PROJECTS

3D Indoor Scene Semantic Segmentation *Nov, 2022 - Jan, 2023*

- Leveraged a pre-trained language model and contrastive loss to guide the U-Net backbone in learning 3D features

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 with python

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

- Built a CNN-based model to learn image representations for downstream image retrieval task

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

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

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

EXTRA-CURRICULAR ACTIVITIES

National Taiwan University Guitar Club, *Education Officier* — *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*