Cheng Hsuan Wu

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Github Kaggle

Education

National Taiwan University

AUG 2018 - PRESENT

B.S. in Computer Science and Information Engineering

Skills

Programming Languages: C, C++, Python, Java, JavaScript

Got A+ in those courses offered by the CSIE Dept.:

- Operating Systems
- Probability
- Computer Architecture
- Computer Networks
- Introduction to FinTech
- Introduction to Intelligent Vehicles
- Computer Science and Information Technology II
- Modern Sciences and Science of Mind

Projects

Machine Learning / Kaggle competition

- Implemented several methods(in Github) in machine learning to attain different tasks.

2020 Mei-Chu Hackathon / Host by NTHU & NCTU

- Developed new products features with the API provided by the company.
- We got 3rd place in the Hackathon.

Computer Network Projects / C++ Socket Programming

- 1. Multi-user video streaming with buffering progress.
- 2. Simulated TCP Retransmission & Congestion control.

RISC-V CPU Core in Verilog

- Simulated CPU, data memory, and instruction memory.
- Simple design for only fifteen typical instructions.

Quantitative Trading Team Competition

- Used <u>Crypto-Arsenal</u> to write trading strategies.
- Traded BTC/USDT, ETH/USDT, and MIOTA/USDT to achieve higher ROI.

Duoio

System Programming / Linux

- 1. Implemented process scheduling policies, including FIFO, RR, SJF, and PSJF by modifying Linux kernel.
- 2. Simulated simple banking system supporting I/O multiplexing and content protection.
- 3. Developed a bidding system which could handle a sequence of competitions.
- 4. Simulated user-thread library using longjmp and setjmp functions.

Singing Transcription from Polyphonic Music / Host by Aldea

- Used a given singing voice to get monophonic music notes.
- We tried RNN and rule-based methods which use <u>madmom</u> to abstract features of audio files.