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Junior Wang

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EDUCATION

Bachelor of Material Science and Engineering
National Taiwan University

Sep 2017 - Jan 2021

Related courses: Algorithm, Machine Learning, Numerical analysis, C Programming, Python Programming

WORK EXPERIENCE

Backend Developer/Strategy Developer
IINumbers Inc.

Jun 2024 - Apr 2025

- Transformed stock market raw historical data into technical indicators, applied machine learning to analyze data and generate trading strategies.
- Developed and maintained backend architecture in Rust for strategy model inference and signal dispatching integrated with Taiwan stock market data from SinoPac Securities via Kafka.
- Managed strategy backend services and stored processed data in ClickHouse database.
- Designed an automated order management system to execute stock purchases based on generated trading signals.

Software Engineer
Trend Micro

Mar 2022 - Apr 2024

• AI Department:

- Built report and article rating tools using user-interaction data from Google Analytics.
- Designed and maintained a duplicate article detection system with an API for content comparison.
- Developed a chatbot using Power Virtual Agent, integrated with internal services via Azure Web Apps.
- Maintained and debugged legacy code for multiple internal systems.

• Mobile Application Team:

- Built backend APIs using AWS Lambda and API Gateway to manage backend workflows of apps.
- Set up DynamoDB and SQL Server, integrated Azure Data Explorer for data visualization.
- Automated signing and publishing of Android apps to Google Play via GitHub Actions.

Research Assistant
Institute of Industrial Engineering, National Taiwan University

Jul 2020 - May 2021

- Using Deep Neural Networks (DNN) and Recurrent Neural Networks (RNN) to predict the output parameters of various industrial machines.

PROJECT

Arbitrage monitoring bot

Jan 2024 - Ongoing

- Integration of various banks and exchanges APIs to handle and store the needed data for short term USDT/TWD arbitrage.
- Monitor the price and interest rate of stable coins on exchanges and DeFi and alert when certain criteria are met.

Crypto Trading and Asset Management**Jan 2024 - Ongoing**

- Executed general crypto trading strategies across DeFi platforms and centralized exchanges.
- Performed USDT/TWD arbitrage trading with MAX exchanges.
- Managed liquidation processes via Orderly Network API.
- Deployed capital in staking and lending protocols to optimize yield and asset utilization.
- Oversaw general digital asset portfolio management, balancing risk and return across multiple strategies.

SKILLS**Programming** Python, C/C++ , Rust, SQL**Communication** Chinese (native), English**Other** Git, regex