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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**

- 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.
- Transformed stock market raw historical data into technical indicators, applied machine learning to analyze data and generate trading strategies.
- 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 - Python**  
**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