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Xiang-Xian(Johnny) Zhang

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Taipei, Taiwan

EDUCATION

Master of Arts in Economics, National Taiwan University (NTU) **Sep. 2022 — Jun. 2024 (Expected)**
- Accepted by graduate school in the 11th place out of 27

Bachelor of Arts in Economics, National Taiwan University (NTU) **Sep. 2018 — Jun. 2022**
- Cumulative GPA: 4.04/4.3
- Related courses: Web Programming, Algorithms, Big Data Applications and Theories, Game Theory and Business Strategy, Machine Learning, Statistical Learning and Deep Learning, Applied Deep Learning,

WORKING EXPERIENCE

Engineering Intern, Warehouse at Shopee **Jan. 2022 — Sep. 2022**
- Developed reusable packages tracking system to lively update 4,000+ packaging status using Google App Script
- Optimized the workflow of automatic daily evaluation on 70+ workers' performance using Pandas
- Maintained and developed 10+ cloud automation tool for the usage of warehouse workers.

Teaching Assistant, Microeconomics at NTU **Sep. 2020 — Jan. 2021**
- Lectured Microeconomics in English for 30+ students in the recitation class
- Supported the professor in lecture materials as well as instructed students on assignments

SELECTED PROJECTS

Full-end Team Management Website Application **Nov. 2021 — Jan. 2022**
- Featured the optimization for ball game teams with highly user-friendly UI design
- Integrated personal page with tasks from several teams
- Developed under React-JS and Node-JS framework and managed MongoDB using GraphQL

Social Media Opinion toward Different Brands of Vaccine Analysis **Nov. 2021 — Jan. 2022**
- Crawled 100,000+ news from UDN, LTN automatically using Requests and Selenium with Python
- Performed text mining and sentiment analysis on the news contents

Final Warrior **Apr. 2020 — June 2020**
- Developed a 2D computer game using Python and Pygame, responsible for coding
- Awarded as the best project in the class

RESEARCH EXPERIENCE

Research Assistant with Prof. Yen-Sheng Chiang, , Academia Sinica **Jan. 2022 — Present**
- Introduce machine learning and deep learning method to the research of crime network
- Perform classification on the imbalanced co-voyage crime network with recall rate equals 46%
- Analyze the telecommunication network of a drug cartel with the law enforcement agency

Research Assistant, Fiscal Information Agency, Ministry of Fiscal **Jul. 2021 — Present**
- Clean trillions of customs and financial statements data in MOF using Stata
- Report summary statistic tables and analysis article for further use

Research Assistant with Prof. Josie I. Chen, NTU **Jun. 2020 — Dec. 2021**
- Developed websites for academic purposes with oTree under Python Django framework
- Reached 200+ research participants

SKILLS

Programming Language: PYTHON, C++, Javascript, SQL, Stata, Matlab, R
Cloud Development Tools: Google App Script
Frameworks: React-JS, Node-JS, GraphQL, PyTorch, Pandas