Yu Lun Hsu

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EXPERIENCE

NYCU ITSC System Development Team
Full-stack Engineer, Architecture Designer

July. 2021 – Present
Golang, MySQL, Docker, Vue.js

- Light-weight and microservice-like system architecture design for Institute of Public Health
- Conduct stress test for optimizing API server; **increased rate of request by 200%**
- Introduce **CI/CD pipeline and containerized service** with gitOps to boost productivity by 50%
- Integrate **AWS S3** into resource server and **MySQL** backup routine
- Build backend api and database service in Golang, design UI by Figma, and implement frontend via Vue.js

Reinforcement Learning and Bandits Lab
Undergraduate Researcher

July. 2020 – Jan. 2022
Python, RL, Algorithm

- **Undergraduate research fellowship, Ministry of Science and Technology (Most), Taiwan**
- Analysis on the overestimation over Distributional Deep Q Network (Implicit Quantile Network)

College of Management, NYCU
Researcher, Teach Assistant

Mar. 2020 – Jan. 2022
Python, Matlab

- Time series prediction via variant of Lotka-Volterra model of energy consumption
- Automate whole research pipeline to enhance productivity
- Build private web service for sharing executable programs over lab members

AWARDS & CERTIFICATIONS

Academic Achievement Award
Ranked TOP 1 in Department of Computer Science

Undergraduate research fellowship, Ministry of Science and Technology
Senior project: On the Overestimation Bias of Distributional Reinforcement Learning

NI Certified LabVIEW Associate Developer
LabVIEW developer certification

PROJECTS

Detection of Ponzi Scheme in Smart Contract ⚙

- Perform better preprcessing to improve f1-score up to 0.12 than this IEEE paper
- Implement a frontend UI to copy, paste and detect OPcode of smart contract

Ablation of Implicit Quantile Network 📄

- Find and evaluate the important factor in IQN.
- Elaborate the reason why IQN is better than QR-DQN

Bitcoin Trader 📄

- Utilize reinforcement learning method (PPO) to automatically trade on Binance and gain **400% profit rate**

EDUCATION

Institute of Computer Science and Engineering
National Yang Ming Chiao Tung University

Sep. 2022 –
Master Degree

Department of Computer Science
National Yang Ming Chiao Tung University

Sep. 2018 – June. 2022
Bachelor Degree

SKILLS

Languages : Golang, Python, JavaScript (Vue.js, React.js), HTML/CSS, SQL (MySQL, SQLite)
Ability : Git, DevOps, ML , RL, DL