Yongyu Xian

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TECHNICAL SKILLS

- Programming Languages: Python, Java, SQL, Golang, C++
- Technologies/Framework: Git, Linux, MySQL, Kubernetes, RabbitMQ, Redis, sqlalchemy, vim, Scikit-Learn, Pandas, PostgreSQL, MongoDB

WORK EXPERIENCE

FUTU Holdings Limited   **Shenzhen, China**
Software Engineer   May 2021 - present

- Coordinated with teams to design a new **real-time** charging system that caters to worldwide stock trading, leading an **82**% improvement in order processing speed using **RabbitMQ** and **multithreading**.
- Implemented a CRM system using **Golang** that allows for more sophisticated operation of user and transaction data, enabling sales teams to apply more nuanced management technologies to customer relationships.
- Redesigned outdated after-hours charging system to new real-time solution and managed **multi-microservices** deployment, enabing customers to modify their assets during trading hours for increased flexibility.
- Developed a reconciliation service for user data, guaranteeing customers precise clearing services with **100**% accuracy.
- Conducted code review and UAT with engineering team, debugged following standard principle and provided technical solution with domain expertise.

RuQi Mobility   **Guangzhou, China**
Data Analyst Intern   Oct 2020 - Jan 2021

- Analyzed and predicted user data and driver behaviors, offering valuable insights into user growth patterns.
- Preprocessed order volume data using Pandas, Numpy and visualized the results through graphs with Matplotlib.
- Utilized fine-tuned **Logistic Regression** to predict user order volume, helping improving operational decision-making.
- Assisted operation sector to refine pricing strategy, resulting in a **3**% increase in customer's daily transaction amount.

PROJECTS

Stock Charging System   Mar 2022 - Nov 2022

- Designed a **real-time** fee deduction system for stocking trading orders that tailor charges to customers' selected packages, seamlessly integrated with instant clearing service for market transactions.
- Utilized **sliding windows limiter** to retrieve orders synchronously from external API for smoothing burst data input.
- Implemented access-calculating streaming pipeline using **RabbitMQ** for high concurrency, with a processing time of under **500ms** per order.
- Built a reconciliation service to compare daily business orders' fees between upstream expenses and calculated result, ensuring system stability and **100**% accuracy.

Customer Relationship Management system Development   Jan 2023 - May 2023

- Built a user-friendly CRM system from scratch using Golang to manage user's trading package customization.
- Implemented 50+ stable, fault-tolerant RESTful API combined redis, mysql with gorm ORM.
- Embedded centralized monitor service into system using **Prometheus** to detect unexpected situation.
- Reached literally **80+**% unittest coverage and high availability for core business code using goconvey, and no downtime has been observed in production environment.

Twitter Emotion Analysis   Feb 2020 - Apr 2020

- Designed a **emotion detection** system to help company analyze and understand user behaviours on Twitter.
- Preprocessed over 1000 emotion-tagged tweets using **NLTK** and initially classified them in 6 classes.
- Utilized the NRC lexicon strategy to calculate the tweets' scores in each class and recognized class with highest score as tweet's final emotion type.
- Achieved to **72**% accuracy through crowdsourcing, surpassing the **48**% based on solely emotion label classification.

EDUCATION

University of Glasgow   **Glasgow, UK**
Msc in Data Science(merit)   Sept 2019 - Dec 2020

Guangdong University of Foreign Studies   **Guangzhou, China**
BSc in Computer Science   Sept 2014 - Jun 2018