

✓ wentby719@gmail.com

□ +86 159-1579-0273

Shenzhen, China

# TECHNICAL SKILLS

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

## WORK EXPERIENCE

## CITIC Securities (CLSA)

Shenzhen, China

Jun 2024 - present

Senior Software Engineer

- Delievered a WPF-based transaction cost analysis APP, calculating 20+ benchmarks for trades and generating analysis reports. Empowered traders to optimize trading strategies like price and timing for institution clients.
- Implemented thread pool management and provided caching strategies, including preloading and scheduled updates, to optimize high-concurrency resource access and benchmark calculations, reducing processing time by 50%(from 3 minutes to 1.5 minutes).
- $\bullet$  Established a Github-based R&D workflow involved branch management and CI/CD pipelines, driving a 30%improvement in individual productivity and scaling the process across the department.

### **FUTU Holdings Limited**

Shenzhen, China

Software Engineer

May 2021 - May 2024

- Coordinated with teams to design a new real-time charging system that caters to worldwide stock trading, leading an significant improvement in processing order using RabbitMQ and multithreading compared to the old one.
- Implemented a CRM system using Golang that allows for more sophisticated operation of user and transaction data, enabling business teams to apply more nuanced management technologies to customer relationships.
- Redesigned monolithic charging system into multi-microservices modules to achieve better fault isolation and scalability, managing to address increased request throughput limitation.
- ullet Developed a reconciliation service for user data, guaranteeing customers precise clearing services with  ${f 100\%}$  accuracy.
- Conducted code review and UAT with engineering team, debugged following standard principle and provided technical solution with domain expertise.

## **PROJECTS**

### **Customer Relationship Management System Development**

Jan 2023 - May 2024

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

#### Stock Charging System

Mar 2022 - May 2024

- 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.

#### Twitter Emotion Analysis

Feb 2020 - Apr 2020

- Designed an emotion detection system to help company analyze and understand user behaviours on Twitter.
- Preprocessed over 1000 emotion-tagged tweets using NLTK for tokenization, stemming and lemmatization, and initially classified them in 8 basic emotional classes.
- Calculated each tweet's scores across 8 basic emotional classes using NRC lexicon strategy and reclassified the tweet under the emotional category with the highest score as its final classification.
- ullet Achieved to 72% accuracy through crowdsourcing, surpassing the 48% based on solely emotion label classification.

## **EDUCATION**

### University of Glasgow

Msc in Data Science(merit)

Sept 2019 - Dec 2020

Glasgow, UK

**Guangdong University of Foreign Studies** 

Guangzhou, China Sept 2014 - Jun 2018

BSc in Computer Science