Jiangkun QIU

📞 +86 158 6659 6952 ✉ qiujiangkun@foxmail.com ⏻ GitHub: qiujiangkun 💬 rocon2001
Internship Target: Backend Development

⚙ Skill Set

- Programming experience for 9 years since 10
- Trained intensively in algorithms and data structures and get awards in Informatics
- Familiar with C, C++, Java, Python, Rust and Scala
- Basic experience in JavaScript, HTML, PHP, C#, SQL, Bash
- Hands-on experience in Linux and git on daily basis for years
- Comprehend operating system, network, machine learning, deep learning, Kafka, K8S, Netty, Disruptor, concurrent programming, JVM optimization

🎓 Education

Hong Kong University of Science and Technology, China	Sep 2020-Now

Integrated System and Design(Programming) major

👥 Working Experienes

Backend Internship	Shanghai Rangchuan Information Technology Co., Ltd.	Dec 2020-Now

- Distributed Rate Limiter: Implemented a modified version of the Sliding Log algorithm With Akka and Redis, to restrict service usage for each user and API. This solved the incapacity that distributed nodes cannot constrict use rate within a small number after load balancing with Ingress in K8S
- WeChat Work Third Party Application：Developed a WeChat Enterprise third-party App prototype with Python to boost intelligent hiring
- Slow Speed Refresh Service：Read changelog from PostgreSQL，clense changelog for each tenant company and write to different Kafka topics according to configuration；Implement a Slow Speed Refresh Queue and its Web Dashboard for internal use with restricted SQL injection

Part-time Job	A quantitative trading company of digital currencies	Jul 2020-Now

- Developed, from scratch in Rust, a set of libraries to collect and process data from dozens of trading platforms. Utilize cache line, lockless ring buffer, etc, to implement a 1:1 thread model and boost performance. Implemented a UDP proxy to work around AWS whitelist.
- Set up a web-based monitoring system with InfluxDB ReactJS, Flask and Plotly Dash
- Built a distributed backtesting system. Collect data from trading platforms to Kafka, and automatically deploy backtesting tasks to AWS autoscaling groups with ansible, then collect backtesting data to PostgreSQL and TimescaleDB.
- Implemented a json deserialization libray with Rust procedual macros and outperform the classic Serde libray by one time.

👥 Projects

Collaborated Project	WP-Reliable MD	Sep 2018-Aug 2019

Reasons: Since the Markdown plugin I was using ceased to develop, my friends and I managed to introduce the Markdown Tui-Editor to WordPress Plugin Marketplace

Duties

- Project Management: As the team leader, I proposed the overall architecture and technical choice. I was also in charge of early development
- Project Development: Redesign the GUI for Tui-Editor and replaced the original editor of WordPress. Adopted a RESTful API to render MarkDown text to work around the incapacity of rendering LaTeX math equations in places other than plaintext. Use a non-intrusive approach to avoid data lose and inconsistency when the plugin is down.

♟ Awards and Certifications

- China Computer Federation Certified Student Member — Jul 2019-Now
- First Prize in the High School Group of National Informatics Olympiad in Provinces — Nov 2017, Nov 2018
- Gold Award of RoboCom2018 Global Championship(Robot Competition) — Jul 2018
- Second Prize in 2017 Tsinghua University Dengfeng Cup Data Mining Competition — Jul 2018
- National Computer Rank Examination Level 4, Network Engineer — Nov 2016
- First Prize(6th) in the Middle School Group of National Informatics Olympiad in Provinces — Oct 2016
- First Prize(1st) in national finals of 19th He Education Cup Computer Competition — Jul 2016