Rustin Liu

▼ rustin.liu@gmail.com · 📞 +(86) 189-0839-4732 · 🕥 hi-rustin · % Website



Software Engineering Bachelor's Degree

Sep 2015 – June 2019

• Chongqing University of Technology

SKILLS

- Programming Languages: Experienced in Go/Rust/JavaScript, multilingual (can adapt to any language)
- Development Tools: familiar with Linux-based programming, have experience with tools like Git, GitHub, Docker, Jenkins, Github Actions and Jira, etc.
- Languages: English (Can read, write and speak fluently), Chinese (Native speaker)

WORK EXPERIENCE

PingCAP Inc. - Database - Database R&D

July 2021 – Present

Transferred from the community department to the data platform department and started to focus on the development of data synchronization tools TiCDC

Responsibilities:

- Responsible for the design, implementation and maintenance of core modules, mainly focusing on Sink and Sorter modules.
- Responsible for the day-to-day maintenance of the project: Issues tracking and resolution, code review and on-call to resolve customer issues.
- Responsible for project code structure optimization, flaky test tracking, and CI/CD script optimization to improve engineering efficiency.

Accomplishments:

- Changed push mode to pull mode to optimize memory management and data synchronization process, greatly improving OOM issues and throughput.
- Modified the Sink module from synchronous to asynchronous mode to optimize code performance and improve throughput by 30%.
- Multi-Topic feature is supported for Kafka Sink, which greatly reduces the cost of multi-Topic task operation and maintenance.
- Tracked and fixed a large number of flaky tests, greatly improving development efficiency. Optimized test scripts to reduce CI time consumption from 40 minutes to 20 minutes.
- All of TiCDC's CLI code was refactored to standardize the way commands are added and written, greatly improving maintainability.

PingCAP Inc. - Database - Front-end and Back-end R&D Aug 2020 - July 2021

Joined the community department to develop TiChi to support community collaboration based on the Kubernetes Community Prow project

Responsibilities:

- Responsible for designing and building the entire project, building collaborative robots on GKE using Prow.
- Responsible for sorting out and optimizing the community collaboration process to provide a better collaboration experience for open source contributors.

Accomplishments:

- TiChi has become the company's CI/CD infrastructure, having completed the project design and development on time.
- Fixed bugs and added features for Prow, submitted 39 PRs.
- Well documented for TiChi, clarifying the collaboration process and providing a better collaborative experience for open source contributors.

Morningstar, Inc. - Financial Services - Front-end and Back-end R&D June 2019 - July 2020

First job after graduation, responsible for writing and maintaining data presentation components, left after the company decided to start closing its China R&D center

Responsibilities:

- Responsible for the front and back-end development of the data presentation component, developed in Java and Vue.
- Responsible for the optimization of component and document release scripts to improve engineering efficiency.
- Responsible for front-end infrastructure maintenance and development, trying and driving front-end engineering.

Accomplishments:

- Several independently developed components are already online and in use, with good stability and performance.
- Implemented a front-end tracking system that uses HeapIO to track user information, with an extensible interface to seamlessly switch to Google Analytics.
- Wrote automated Jenkins scripts for component and document releases, optimizing the release process from a manual 4-hour process to a fully automated 30-minute process.
- Optimized the company's front-end scaffolding to support TypeScript, added prettier to unify code formatting, and unify ESLint rules.

6 Open Source Projects

Cargo & Rustup & Rust

https://github.com/rust-lang

(Active Maintainer) 380+ commits

- Improved various error prompts for Rustup, Cargo commands and Rust compiler to make errors to effective and clear.
- Added the –crate-type function and added related documentation for Cargo.
- Different modes of self-update were supported for Rustup to provide a better experience.
- Improved Rustup testing and was responsible for releasing Rustup.

Phlare

https://github.com/grafana/phlare

(Active Contributor) 28+ commits

- Refactored all command line flags and added flags descriptions and tests
- Added a management page to show the status of each component
- Refactored all APIs to make them easier to write and test

ant-design

https://github.com/ant-design/ant-design

(Previous Maintainer) 24+ commits

- Refactored Input component and added cleanup button
- Designed and added Skeleton component