RUSTIN LIU

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👥 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: issue tracking and resolution, code review and oncall 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

- Responsible for writing and maintaining some components, developed using springboot and Vue. Several components are already online, with good stability and performance.
- Responsible for designing the tracking system design and implementation, using HeapIO to track user information, with a scalable 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.

🎓 EDUCATION

Software Engineering Bachelor's Degree   Sep 2015 – June 2019

- Chongqing University of Technology

😺 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

⚙ Skills

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