Yuchen Cheng

E-mail: rudeigerc@gmail.com https://rudeigerc.dev Mobile: +86 136 8187 3435

EDUCATION

Shanghai Jiao Tong University

M.Eng. in Software Engineering

Shanghai Jiao Tong University

B.Eng. in Software Engineering

Shanghai, China

Sep. 2019 - Mar. 2022 (Expected)

Shanghai, China

Sep. 2015 - Jun. 2019

Publications

[1] Yuchen Cheng, Chunghsuan Wu, Yanqiang Liu, Rui Ren, Hong Xu, Bin Yang, and Zhengwei Qi. 2020. OPS: Optimized Shuffle Management System for Apache Spark. In 49th International Conference on Parallel Processing - ICPP (ICPP '20). (CCF-B)

EXPERIENCE

LFX Mentorship by The Linux Foundation

Remote

Mentee

Feb. 2021 - Present

• volcano-sh/volcano. Volcano is a Kubernetes native batch scheduling system for compute-intensive workloads. My work includes building an efficient testing framework based on Kubernetes and importing unit tests and E2E tests to cover more classical scenarios.

JD.com

Shanghai, China

Software Development Engineer Intern

Jun. 2018 - Sep. 2018

• JingZao. Rewrite module JingZao with React Native and introduce several sections in Objective-C.

PROJECTS

CaseCloud

May. 2019 - Present

- A cloud native electronic platform for bankruptcy process management, with a trillion renminbi-level claims processing.
- Responsible for the management of development process and build an efficient GitOps pipeline with Kubernetes and Tekton.
- Design and implement the user interface with TypeScript and React, and manage the dataflow with Redux.
- Build a message broker with Apache Kafka on Kubernetes using Strimzi, and implement a gRPC-based message center.

OPS

Sep. 2019 - Feb. 2020

- A distributed computing shuffle management system based on Spark, taking over and optimizing the shuffle phase of Spark.
- Early-merge intermediate data to mitigate intensive disk I/O, early-schedule based on partition pages, and early-shuffle intermediate data stored in shared memory.
- Optimize the overhead of shuffle by nearly 50%, and improve end-to-end completion time by nearly 30% on average in the test cases of HiBench.

SERVICE

Shanghai Jiao Tong University

Shanghai, China

Teaching Assistant

Autumn 2018, Spring 2019, Autumn 2019, and Summer 2020

Dongyue Web Studio, Shanghai Jiao Tong University

Shanghai, China Dec. 2016 - Dec. 2019

Leader of Team iOS

- Tongqu for iOS. The official platform of activities for students in Shanghai Jiao Tong University, on which thousands of students have joined in the activities. My work includes development and maintenance.
- dyweb/go-jaccount. The Golang client for jAccount, the unified identity authentication system of Shanghai Jiao Tong University.

Programming Skills

Languages: Go, TypeScript, JavaScript, Java, Python, C++, Swift

Honors and Awards

The Second Prize in Taiwan Student Scholarship

Mar. 2021 Dec. 2018

The Second Prize in Taiwan Student Scholarship

Dec. 2017

The Third Prize in Taiwan Student Scholarship

Miscellaneous

• GitHub: https://github.com/rudeigerc

- LinkedIn: https://www.linkedin.com/in/rudeigerc/
- Open Source Contributions: Member of Tekton. tektoncd/cli, tektoncd/triggers, tektoncd/dashboard, strimzi/strimzikafka-operator, volcano-sh/volcano

Last modified: March 10, 2021