

EDUCATION

Shanghai Jiao Tong University

M.Eng. in Software Engineering

Thesis: *Distributed Data Processing Job Scheduling in Multi-Tenant Shared Clusters*

Shanghai, China

Sep. 2019 – Mar. 2023

Shanghai Jiao Tong University

B.Eng. in Software Engineering

Shanghai, China

Sep. 2015 – Jun. 2019

EXPERIENCE

WizardQuant

AI Platform Development Engineer

Shanghai, China

May. 2023 – Present

Ant Group

Site Reliability Engineer Intern

Shanghai, China

Jun. 2021 – Sep. 2021

- **Identity Provider Connector.** Led the development of the Dex identity provider plugin connecting to the internal identity and access management system. The connector provided OIDC services for internal systems such as Argo CD and Grafana.
- **Federation Observability Platform.** Participated in the design and development of the internal multi-clusters observability platform.

The Linux Foundation

Mentee of LFX Mentorship Program

Remote

Feb. 2021 – May. 2021

- **volcano-sh/volcano.** Built an efficient testing framework based on Kubernetes and imported unit tests and E2E tests to cover more classical scenarios for Volcano, a Kubernetes native batch scheduling system for compute-intensive workloads.

JD.com

Software Development Engineer Intern

Shanghai, China

Jun. 2018 – Sep. 2018

- **JingZao.** Rewrote module JingZao with React Native and introduced several sections in Objective-C for JD.com mobile application.

SELECTED PROJECTS

Moirai: Distributed Data Processing Job Scheduling in Multi-Tenant Shared Clusters

Sep. 2021 – Dec. 2022

- Built a scheduler aiming to improve the resource utilization of multi-tenant shared clusters for distributed data processing jobs with Kubernetes scheduling framework.
- *Unified Multi-Tenant Abstraction Model:* Designed a model providing abstraction and binding relationships between tenants and jobs.
- *Multi-Tenant-Oriented Scheduling System for Jobs:* Designed a mechanism of scheduling based on placement constraints and resource sharing.

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).

SERVICES

Shanghai Jiao Tong University

Teaching Assistant

Shanghai, China

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

PROGRAMMING SKILLS

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

Tools and Frameworks: React, Kubernetes

HONORS AND AWARDS

The Second Prize in Taiwan Student Scholarship

Dec. 2018, Mar. 2021 and Oct. 2021

The Third Prize in Taiwan Student Scholarship

Dec. 2017

MISCELLANEOUS

GitHub: <https://github.com/rudeigerc>

LinkedIn: <https://www.linkedin.com/in/rudeigerc/>

Selected Open Source Contributions: Member of **Tekton** and **Tensorchord**. `tektoncd/cli`, `tektoncd/triggers`, `tektoncd/dashboard`, `strimzi/strimzi-kafka-operator`, `volcano-sh/volcano`, `tensorchord/envd`