

## 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*

#KUBERNETES #GO #PYTHON #RAY #REACT #VUE

Shanghai, China

May. 2023 – Present

### Ant Group

*Site Reliability Engineer Intern*

Shanghai, China

Jun. 2021 – Sep. 2021

- **Federation Observability Platform.** Participated in the design and development of the internal multi-clusters observability platform.
- **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.

#KUBERNETES #GO #REACT

### The Linux Foundation

*Mentee of LFX Mentorship Program, CNCF - Volcano*

Remote

Feb. 2021 – May. 2021

- **System Stability Enhancement.** 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.

#KUBERNETES #GO

### JD.com

*Software Development Engineer Intern*

Shanghai, China

Jun. 2018 – Sep. 2018

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

#OBJECTIVE-C #REACT NATIVE

## 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

### Dongyue Web Studio, Shanghai Jiao Tong University

*Leader of iOS Team*

Shanghai, China

Dec. 2016 – Dec. 2019

## PROGRAMMING SKILLS

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

**Topics:** Resource Management, Scheduling

**Tools and Frameworks:** Kubernetes, Ray, React, Vue

## LICENSES AND CERTIFICATIONS

Japanese-Language Proficiency Test Level N1

## HONORS AND AWARDS

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The Second Prize in Taiwan Student Scholarship, Ministry of Education, P.R.C.

*Dec. 2018, Mar. 2021 and Oct. 2021*

The Third Prize in Taiwan Student Scholarship, Ministry of Education, P.R.C.

*Dec. 2017*

## MISCELLANEOUS

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

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

**Languages:** Chinese (Native proficiency), English (Professional working proficiency), Japanese (Limited working proficiency)

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

Last updated: March 27, 2024