

# Yuangang Li

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## EDUCATION

### University of Southern California

Master of Computer Science

CA, United States

Jan.2022 - May.2024

### Beijing City University (GPA 4.5 / Top 1%)

BSc Software Engineering (Cloud Computing)

Beijing, China

Sep.2017 - Jun.2021

## SKILLS

- **Backend:** Java, Golang, Python, Node.js, Tomcat, Express
- **Databases:** MySQL, Firebase, MongoDB
- **DevOps:** Kubernetes, Docker, CRD, Operator SDK, Helm3
- **Metrics and Visualization Tools:** Prometheus, Grafana
- **Frontend:** HTML, CSS, JavaScript, TypeScript, AngularJS
- **Cloud:** GCP (App Engine), AWS EC2
- **Other Tech Stack:** Git, Github, Github Action, Pytorch

## WORK EXPERIENCE

### Software Developer | USC iLab Laboratory

Los Angeles, CA Mar.2023 – Aug.2023

(Python, MLOps, Docker, Github Action, Pytorch, Pytest)

- Contributed to "Ablator," an open-source Deep Learning framework used by **30+** USC researchers for horizontal scaling of ablation experiments and hyperparameter tuning, encompassing **70 pull requests**. (<https://github.com/MrLYG/ablator>)
- Created CI/CD pipeline with **GitHub Actions**, Implemented and documented tests with Pytest, achieving 95%+ coverage.
- Developed and released a Python API package for RClone on PyPI, streamlining cross-platform usage without pre-installation and featuring automatic binary selection. (<https://github.com/MrLYG/python-rclone>)

### Infrastructure Engineer | SenseTime (Top Tier Public AI Company)

Jan.2022 – Dec.2022

(Kubernetes, Docker, Go, CI/CD, CRD, Operator-SDK, Helm3, Prometheus, Grafana)

- Developed "RocketMQ as a Service", akin to "RabbitMQ as a Service" in **AWS Marketplace**, offering fully managed RocketMQ clusters in SaaS Platform, which resulted in a **100% increase** in RocketMQ service creation speed.
- Utilized **Operator SDK** to construct a **Kubernetes**-based RocketMQ Operator and Custom Resource Definitions (**CRD**), automating lifecycle management and saving 10+ hours in manual operations per week.
- Employed **Helm3** to package components into Helm charts, simplifying Kubernetes deployment and improving resource management for the RocketMQ Operator project.
- Implemented **Prometheus** and **Grafana** for real-time monitoring of critical service metrics and node health.
- Automated workflows including unit tests, image builds, and Helm3 Chart updates via **GitLab CI/CD**.

### Software Engineer | Institute of Software, Chinese Academy of Sciences (Top Research Institute)

May.2021– Aug.2021

(Docker, Node.js, JSON, Vue.js, RobotFramework)

- Participated in the R&D of a web-based automated testing tool employing Record and Playback technology. This tool allowed the recording, editing, execution, analysis, and result generation of user actions within test cases.
- Used **Node.js**, transformed user actions recorded in JSON into Robot Framework scripts, **achieving a 95%** operation conversion coverage rate, to facilitate Playback testing.
- Containerized the program with **Docker** and automated **DevOps** pipeline for development efficiency improvement
- Employed Vue.js and AceEditor to fabricate custom components and layouts, enhancing front-end usability.
- The implementation of the tool **saves 15+ hours per week** and improves end-to-end testing **efficiency by 300%**.

### Software Developer | Xiaoni Translations (Beijing) Technology Co., Ltd.

Jan.2021– Apr.2021

(Java, SpringBoot, Spring, Java Persistence API, Maven, Nginx, MySQL, Git, Java Application)

- Developed an AI document translation system with **Java/Spring/Maven**, independently created a PDF/XML module garnering **30,000 MAUs**, and optimized performance using Nginx and Git.

## PROJECT EXPERIENCE

### EventMaster (Event Searching System)

Mar.2023 –Apr.2023

(Full Stack Website, Node.js, AngularJS, GCP, AJAX)

- Developed and deployed an event search platform on **Google Cloud Platform(App Engine)** using **JavaScript/Node.js**, Express, AngularJS, and TypeScript, enhancing frontend data display with integrated APIs such as Ticketmaster and Spotify.

### Analysis Platform For University Major Development

May. 2019 – Jun.2020

(Full Stack Website, Web crawler, Python, MongoDB, MySQL, Java, Spring, Spring MVC, MyBatis, React, Docker)

- Led a team using **Web crawler** and **Python** to gather and analyze job recruitment data(10 million +), aiding university curriculum planning. Awarded "National Level Innovative Excellence Project" **recognition**, and adopted by the university.
- Utilized **MongoDB** and **MySQL** for data storage, processing, and analysis, and developed data visualization dashboard using **Java Spring**, and **React**, enhancing data readability.
- Used **Docker** for containerization and **CI/CD** technologies for automated operations.