

# Quan-Lai Li

Pronoun: they

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## Experience

### **Robinhood** - *Tech Lead on Workflow*

#### **Team Lead**

- Founded the team, scaled the team to four people, set the vision, plan, OKR of the team
- Built best practices for Airflow DAGs, set the standards for Airflow oncall, code review, alerting, monitoring, etc
- Coordinated with leads on other teams and orgs (clearing, brokerage, data, etc.) to better integrate the infra
- Mentoring junior engineers: giving them timely feedbacks, delegated domains of ownership to team members

#### **Airflow Integration Test**

- Identified the gap of Airflow integration tests as a critical data infra pain point
- Created a cross-functional team to tackle the problem, including people from Dev Infra, Data Infra, and Data Eng
- Building a smooth and intuitive user story and experience for people to test their DAGs in isolated namespaces

### **Lyft** – *Senior Software Engineer*

01/2020 - 04/2021

#### **Airflow Unittest**

- Designed a framework to execute Airflow unit tests locally on developer's machine with translated queries
- Managing a project with three contributors and running weekly sprint plannings
- Scaling up the user base from one user to a team, aiming for full coverage of all of Lyft's ETLs

### **Uber** – *Software Engineer*

07/2017 - 01/2020

#### **20X Faster Pipeline Deployment**

- Designed a new monorepo pipeline deployment solution for better scalability, reliability, and efficiency
- Architected the system with continuous integration, centralized storage, and parallel distribution components
- Reduced the average pipeline deployment time from 20min to 1min, saving 800 person-hour for Uber monthly

#### **One-click ML Workflow Management**

- Integrated Piper with Data Science Workbench (DSW), an in-house machine learning platform
- Bridged the gap between ML workflow experimentation and production environments

#### **GDPR / Fidelity Compliance**

- Brought Piper GDPR and Fidelity compliant with stricter access control to protect sensitive data
- Introduced the role-based concept of proxy for multi-tenancy, better user isolation, and ownership management
- Commissioned a project for Hadoop/Spark security token generation to align Piper's auth practices with the data org

## Publication

### **Detecting Similar Repositories on GitHub** (IEEE SANER 2017)

2016

- Invented a GitHub repository recommendation algorithm based on two heuristics leveraging new data sources
- Demonstrated that RepoPal outperforms CLAN (state-of-the-art) in precision by 20% and in confidence by 41%

## Education

### **UC Berkeley** – *Master of Engineering in Computer Science*

Capstone Project: Scaling Up Deep Learning on Clusters

### **Zhejiang University** – *Bachelor of Engineering in Software Engineering*

Capstone Project: Detecting Similar Repositories on GitHub