



Ganyu (Bruce) Xu

Software Engineer, Data Platform

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 xuganyu96

Skills

Data engineering

- Python
- Apache Airflow
- pandas
- SQLAlchemy ORM
- Jupyter

Cloud infrastructure

- Docker
- AWS EC2, S3, ECS
- DataDog

Database & DWH

- AWS Athena
- MySQL & PostgreSQL

Web development

- Flask & Django
- HTML 5 & CSS 3
- JavaScript ES6
- UNIX shell scripting
- Linux (Debian, CentOS)
- RabbitMQ
- NginX
- Go

Education

UC Berkeley

Aug 2015 - May 2019
B.A. Mathematics
B.A. Statistics
GPA 3.464

Experience

Data Engineer

July, 2019 - Present

LeanTaaS Inc.

Santa Clara, CA

- **Onboarded new customer worth more than \$300k in annual revenue**
- **Shortened customer onboarding from 12 to 4 weeks** by building horizontally scalable backend microservice that automates raw data schema validation
- **Accelerated development cycle** by provisioning on-demand AWS infrastructure that enables developers to validate individual git branches in sandboxed testing environment
- **Automated unit testing** by integrating pytest into deployment pipeline
- **Maximized Airflow task concurrency (up to 2000)** by contributing to and applying in-house Airflow Fargate executor plugin
- **Increased on-demand ETL service availability** by introducing DataDog for monitoring performance metrics and service outage
- **Halved production Airflow task scheduling wait time** after identifying performance bottleneck and resizing appropriate cloud infrastructure

Software Engineering Projects

Chives exchange



Flask RabbitMQ MySQL Docker NginX ChartJS

- Implemented stateless order matching engine that receives orders from RabbitMQ and writes transactions to SQL database
- Implemented web UI using Flask, featuring simple user authentication, simulated stock trading, and market information with interactive stock chart

PyArchive



Django WebSocket AWS S3

- Implemented hybrid cloud file backup solution in which user uploads file through a web interface to a local caching device, which further backs up the file to AWS S3 in the background
- Achieved effective disaster recovery using multipart file upload/download such that large file transfer can be interrupted with minimal progress loss
- Integrated WebSocket into webserver and enabled admin users to execute custom Python script and receive real-time console output

Simple resume generator



JavaScript HTML/CSS

- Simplified resume writing using JavaScript and HTML for layout and templated JSON for content
- Rendered this resume that you are reading now