Ganyu Xu

software engineer

626-327-8890

xuganyu96

in /in/ganyu-bruce-xu

Skills

- Rust
- Python 3
 pandas
 SQLAlchemy ORM
- Apache Airflow
- Amazon Web Services

Compute (EC2, Lambda)
Storage (S3, EBS)

Container (ECS, Fargate)

Database (MySQL, PostgreSQL)

Analytics (Kinesis, Athena)

Security (KMS, Secrets Manager)

CI/CD (CodeDeploy, Beanstalk)

- Docker containers
- Shell scripting
- Web development

Flask, Django

HTM, CSS, JS, Bootstrap 5

Static site generation (Jekyll)

Education

UC Berkeley

Aug, 2015 - May, 2019

B.A. Statistics

B.A. Mathematics

GPA: 3.464

Professional Experience

Senior software engineer, data platform

July, 2019 - Sept, 2023

LeanTaaS Inc.

Santa Clara, CA

- Automated business analytics and legacy manual workflow for operioperative management in 100+ healthcare systems throughout the US
- Improved ETL pipeline scalability by migrating data ingestion from PostgreSQL to AWS S3 and moving Airflow's workers to AWS ECS + Fargate
- Accelerated enterprise customer onboarding by automating laborintensive tasks and cutting onboarding timeline from 4 months to 1 month
- Increased developer productivity by containerizing development environment, building unit testing framework, and integrating CI/CD practices
- Reduced data-related production incidents and pipeline downtime by implementing service availability monitoring and engineer on-call alarms via DataDog
- Led a team of 7 software engineers and mentored several junior developers through project design and implementation review and technical workshops

Open source contributions

RustCrypto



- Implemented constant-time arithmetic for heap-allocated big integers in cryptographic bigint crate crypto-bigint
- Expanded prime generation for heap-allocated big integers in crypto-primes

Apache Airflow



- (PR #32707) Fixed improper multiprocessing exception handling that causes Airflow scheduler to become zombie while the scheduler health checks become unresponsive
- (PR #32385) Fixed incorrect DagRun list view serialization that causes the webapp to crash when DagRun config is not JSON-serializable
- o (PR #31836) Implemented user-specified retries for 'airflow db check'

rustls



 (PR #1328) Identified Google's incorrect TLS termination procedure and fixed rustls' demo binaries to connect to other properly working TLS server

PyAthena



 (PR #446) Fixed improper eager type hints evaluation that breaks compatibility between PyAthena and newer versions of SQLAlchemy

Asymmetric two columns (A2C)



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