

# Freya (Yun) Fu

fuyun12345@gmail.com | 412 897 8908

## Skills and Expertise

Proficient knowledge of **Java**, **GoLang**, **Kubernetes**, **OpenTelemetry**

Experienced with Kafka, Kafka Streams, Terraform, ElasticSearch, Git, Maven, Python etc.

## Work Experience

### Confluent - Senior Software Engineer II

10/2018 — Present

One of the founding members of Confluent Observability team.

Designed and developed OpenTelemetry metrics pipelines for Confluent Cloud micro services.

- Led the delivery of pipeline end-to-end from design to GA. Adopted by over 95% of Confluent's 2k+ control planes and data planes.
- Migrated OpenCensus services to OpenTelemetry for both metrics and traces by hybridizing formats for druid ingestion, Kafka Big Query connectors, instrumentation starter libraries, etc.
- Contributed to improving Kafka performance 10x by migrating Kafka to OpenTelemetry pipeline.
- Designing regional architecture to replace current global architecture to improve scalability.

Delivered Metrics API for Cloud Kafka users to support flexible querying on usage patterns.

- Shipped a real-time monitoring REST API backed up by the biggest Kafka cluster (~800 partitions, ~2M connections) in Confluent Cloud, alongside a Druid cluster with 5M events/sec throughput.
- Migrated billing system away from ElasticSearch to this new Metrics API, which resolved metrics dropping issue and saved us \$20k per month.

### Visa - Senior Software Engineer

08/2016 — 09/2018

- Improved Mobile Location Confirmation Service performance. Enabled 200+ million transactions/month to onboard the largest issuers and their clients.
- Improved Cardholder Enrollment dataflow from 10TPS with >20 seconds latency to 100TPS with 0.22 seconds latency for 95 percentile transactions.

## Education

**Carnegie Mellon University** — Master of Science, Pittsburgh, US  
Information System Management

2014 — 2016

**Wuhan University** — Bachelor of Science, Wuhan, China  
Electronic Commerce

2010 — 2014