

Minkyung Kim

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WORK EXPERIENCE

Backend Software Engineer

March 2019 - June 2024

Uber Technologies, Inc., San Francisco, CA

■ Uber User entity 'Source of Truth' database migration

- Contributed to a multi-year project migrating the database, serving as the 'Source of Truth' for 280+M Uber user entities, as the original storage system is being deprecated.
- Designed and implemented a storage package component in Go shared and reused by sister teams. Collaborated closely with storage teams to align with requirements from both sides.

■ User tags to User attributes migration framework

- Led and delivered a scalable solution by designing and implementing a dual-write framework that transforms values dynamically and achieves atomic DB writes, automating the migration process.
- Collaborated with cross-organizational stakeholders, including engineers, data scientists, and project managers. Tracked priorities, progress, testing, and monitoring/alerting to ensure safe deprecation of old property.
- Successfully guided two client teams through three phases (property migration, property reader/writer migration, and old property deprecation) for critical account security/market place risk tags attached to 300M+ users without breaking live traffic & offline access and pipelines with no downtime. Presented the framework and outcomes in a meeting with ~100 attendees.

■ Legacy Tier 1 Python service migration to new Tier 1 Go service

- Contributed to migrating and decommissioning Tier 1 Python legacy service, one of Uber's top 3 largest services with 600+ clients (according to the company-wide call graph), to the new stack written in Go.
- Owned 5 write endpoints E2E migration, including the second highest RPS endpoint, seamlessly migrated the live traffic without outage. Improved p99 by 92%, p99.95 by 86% of the 5 endpoints.

■ Client support improvement as side projects

- Reduced support workload by integrating the company's LLM bot into our support channel, serving 2k+ devs, to provide instant answers to clients. Developed CLI tools to streamline manual tasks such as allowlisting.
- One of the 23 contributors to a community-project Slack application, the most-used bot in public/private Uber channels. Documented and introduced a dev guide to my organization to facilitate new feature development.

SKILLS

Golang, Python, Java, SQL, PostgreSQL, API, Integration, RPC, Google Protobuf, RESTful, Spark, Redis, Kafka, NoSQL, Google Cloud Platform, Spanner, Amazon Web Services, Hadoop, HDFS, MapReduce, Docker, Grafana

EDUCATION

Masters of Information Systems Management

August 2017 - December 2018

Carnegie Mellon University, Pittsburgh, PA, United States

- Distributed Systems, Data Structures and Algorithms, NoSQL Database Management (TA), Coding Bootcamp

B.S. in Computer Science

March 2012 - February 2017

Ewha Womans University, Seoul, South Korea

- Computer Network(TA), Cloud Computing, Operating Systems, Computer Architecture, System Software
- Student President in major (2014)