Zhaoyu Wang

Interests: large-scale distributed cloud computing, DBMS, Data Infra

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EXPERIENCE

ByteDance/TikTok | SOFTWARE ENGINEER II | JUN. 2023 - PRESENT

Global Monetization
➜ Participated in **Brand Innovation Ads Delivery** team as Backend Software Engineer
➜ Supported scalable and low-latency($\sim$ **1s**) Ads Delivery pipeline handling **1M+** RPS
➜ Scaled Reach & frequency models on ML platform serving millions TikTok Ads

Global E-Commerce
➜ Participated in **GEC Merchandise Supply** team as Backend Software Engineer
➜ Designed and built supply system improving **5M+** product growth from scratch
➜ Led and launched global supply in **multi-DC** to connect **100k+** SMB at scale
➜ Collaborated with **XFN** stakeholders across orgs, like EM, DS, PM, PMM, etc.
➜ Implemented supply core workflows by **Go**, **Thrift Rpc**, **Eventbus**, **RDS**, and **ES**

Booking.com | SOFTWARE ENGINEER | APR. - AUG. 2022

➜ Participated in **Partner Offer Infra** team as Infrastructure Software Developer
➜ Maintained **99.95%** availability SLO for Booking Third Party Inventory architecture
➜ Supported Availability Cache System to tolerate **150k+** RPS for real-time full traffic
➜ Migrated Pricing Platform to reach **70ms** latency on Search Result and Hotel Page
➜ Initiated incubator framework to host **Kafka** streaming consumers and cron tasks

Wish Inc. | SOFTWARE ENGINEER | OCT. 2020 – APR. 2022

➜ Participated in **WishPost Logistics Product** team as Full Stack Software Eng.
➜ Built logistics platform to connect **600k+** merchants and **400M+** customers
➜ Maintained and monitored **2k+** peak RPS order APIs by **Prometheus** and **Grafana**
➜ Implemented logistics core APIs using **Python**, **MongoDB**, **Redis**, and **AWS SQS**
➜ Deployed **ETL** data pipeline via **Airflow**, **Hive**, and **Presto**, and sinked in **AWS S3**

Grab Inc. | SOFTWARE DEVELOPER INTERN | JUL. - SEP. 2020

➜ Participated in **Geo Debugging Tools** team as Full Stack Software Eng.
➜ Built **GrabMap** features and achieved **2.5k+** monthly debugging, **140k+** searches

PROJECTS

Compiler of EtaLang | JAVA, COMPILER | JAN. - MAY. 2023
➜ Built a compiler for Eta, a strongly-typed, C-like language compiles down to x86-64 assembly from lexer, parsing, type-check, IR-gen to assembly code-gen
➜ Performed dataflow analysis to support multiple optimizations, like register allocation, constant & copy propagation, dead-code elimination, etc.

Distributed Gossip | PYTHON, MULTIPROCESS, SOCKET | SEP. 2022
➜ Designed and implemented a distributed **pull**-mode gossip protocol from scratch, supporting gossip-node table, blocking blacklist, adversarial gossip, etc.

SKILLS

LANGUAGES & FRAMEWORKS

Go • Python • Java • C++ • JavaScript • SQL • LaTeX • Spring Boot • Tornado • Flask

STORAGES & MIDDLWARES

MySQL • PostgreSQL • Redis • MongoDB • Cassandra • Kafka • Prometheus • Graphite • Hive • Flink • Presto • ElasticSearch • Clickhouse

INFRASTRUCTURE & TOOLS

Kubernetes • Docker • Git • AWS • GCP • Linux • Airflow • Grafana • Kibana • Sentry

EDUCATION

CORNELL UNIVERSITY
MASTER OF ENGINEERING IN COMPUTER SCIENCE
May. 2023 | Ithaca, NY
Bowers College of Computing and Information Science
GPA: 3.74 / 4.0

UNIVERSITY OF MINNESOTA, TWIN CITIES
BACHELOR OF SCIENCE IN COMPUTER SCIENCE
May. 2021 | Minneapolis, MN
College of Science and Engineering
GPA: 3.97 / 4.0 | Highest Distinction