Zhaoyu Wang

Interests: large-scale distributed systems, data(base) management systems, data infra

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EXPERIENCE

BOOKING.COM | SOFTWARE ENGINEER | APR. 2022 - 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
- ➔ Initiated incubator framework to host **Kafka** streaming consumers and cron tasks
- ➔ Improved Service Health SLO/SLI coverage by **20%** and op-doc coverage by **30%**

WISH INC. | SOFTWARE ENGINEER | OCT. 2020 – APR. 2022
- ➔ Participated in **WishPost Logistics Product Team** as Full Stack Software Engineer
- ➔ Built logistics platform to connect **600k+** merchants and **400+ million** customers
- ➔ Maintained availability of order APIs at **2k+** peak QPS and **2+ million** daily requests
- ➔ Reduced **30%** latency of order APIs using **Redis** and local memory Cache Manager
- ➔ Deployed ETL data pipeline via **Airflow**, **Hive**, and **Presto**, and saved reports to **S3**
- ➔ Monitored **Redis Publish-Subscribe** message pattern by **Prometheus** and **Grafana**
- ➔ Built key-metric and production-quality UI dashboard features by **Vue** and **Vuetify**

TARGET CORPORATION | SOFTWARE ENGINEER INTERN | SEP. - DEC. 2020
- ➔ Enrolled UMN Senior Software Capstone Project at **Information Security Team**
- ➔ Built log editor by **VSC Extension APIs** to check suspicious domains and contexts
- ➔ Optimized Indicators of Compromise to improve Security Analysts search

GRAB INC. | SOFTWARE DEVELOPER INTERN | JUL. - SEP. 2020
- ➔ Participated in **Geo Debugging Tools Team** as Full Stack Software Engineer
- ➔ Achieved **300+** daily bookings, **2.5k+** monthly debuggings, and **140k+** searches
- ➔ Implemented **GrabMap** features by Google Maps APIs, **React**, and **Ant Design**

PROJECTS

PYGOSSIP | PYTHON, MULTIPROCESS, SOCKET| SEP. 2022
- ➔ Designed and implemented a distributed **pull** model gossip protocol from scratch
- ➔ Maintained gossip-node table, blocking blacklist, and supported adversarial gossip

LEMON GISTS | PYTHON FLASK, POSTGRESQL, HEROKU | FEB. - MAR. 2021
- ➔ Designed and built a gists tool to share personal codes, notes, and snippets
- ➔ Implemented REST APIs by **Flask**, connected to **pgSQL**, and deployed to **Heroku**

SKILLS

PROGRAMMING

Python • Java • JavaScript
SQL • HTML/CSS • LaTeX
C/C++ • OCaml • Assembly

LIBRARIES/FRAMEWORKS

Tornado • Flask • Redis
Kafka • MongoDB • MySQL
PostgreSQL • Hive • Presto
ElasticSearch • Grafana
Prometheus • Graphite
Vue • React • Ant Design
Spring Boot

TOOLS/PLATFORMS

Kubernetes • Docker • Git
AWS • GCP • Linux • Airflow
Grafana • Hue • Sentry
Kibana • Jekins • Heroku
Firebase

EDUCATION

CORNELL UNIVERSITY
MASTER OF ENGINEERING IN COMPUTER SCIENCE
May. 2023 | Ithaca, NY
Cornell Bowers College of Computing and Information Science

UNIVERSITY OF MINNESOTA, TWIN CITIES
BACHELOR OF SCIENCE IN COMPUTER SCIENCE
May. 2021 | Minneapolis, MN
College of Science and Engineering
GPA: 3.973 / 4.0 | Highest Distinction