

Zameer Manji

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About Me

I take pride in building simple, reliable, and flexible backend systems. I have contributed to and operated a number of infrastructure and backend systems in Golang, Java, and Python. I'm currently interested in the Rust programming language and containerization technologies on Linux.

Work Experience

Uber - Next Prediction Platform

Staff Software Engineer

New York, NY

November 2022 - Present

- Designed, built and operated a low latency user-centric feature store which powered critical models. Feature freshness was reduced to order of minutes instead of several days which improved model performance.
- Integrated Kafka triggers into a prediction platform, allowing models to be triggered asynchronously. This unlocked push notification usecases.
- Actively participated in oncall and operational work. I automated alert generation and dashboard generation, reducing manual work needed to operate the prediction platform.

Uber - Merchant Platform

Sr Software Engineer/Staff Software Engineer

New York, NY

November 2019 - November 2022

- Led a Delivery Engineering migration effort from a legacy node.js platform to a modern Golang stack, coordinating the migration of over 80 mobile facing endpoints and 10+ teams. Benefits included reduced latency and reduced development time.
- Designed and implemented a new Kafka consumer platform for Merchant Engineering, enabling engineers to write consumers with no boilerplate and little operational cost.
- Participated in a Delivery Engineering wide oncall rotation, helping reduce impact of severe incidents.
- Successfully mentored junior engineers to promotion.

Uber - Map Services

Sr Software Engineer

San Francisco, CA

July 2017 - November 2019

- Designed and implemented a new storage system and read APIs for Uber internal map data, resulting in increased storage efficiency, reduced maintenance burden, and flexible API evolution. The new system scaled to very high amounts of traffic while maintaining low latency for many years after.
- Contributed to dependency maintenance of Java monorepo including multiple upgrades of Dropwizard, improving all services at Uber written in Java.

Uber - Compute Infrastructure

Software Engineer II

San Francisco, CA

July 2016 - July 2017

- Assisted in bringing up multiple Apache Mesos and Apache Aurora zones to overhaul compute infrastructure, including integrating an existing deploy system with new zones.
- Contributed experience and expertise to designing new infrastructure across compute and RPC routing.

Twitter

Software Engineer I - Software Engineer II

San Francisco, CA

August 2014 - May 2016

- Contributed to internal system to allow users to coordinate deploys across multiple Apache Aurora zones.
 - Collaborated with many engineers at Twitter to improve internal Python build hygiene.
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Blog and Other Projects

Blog

Author

Online

June 2021 - Present

My blog showcases my learnings and technical expertise. Topics span various technologies including Rust, Python, Linux, and build systems.

SQFS

Author

Online

sqfs is a SquashFS FUSE driver written in Rust during my spare time. I wrote every major component myself from scratch, including the FUSE communication layer, and the SquashFS format parser. The performance of reading files or traversing directory trees is orders of magnitude faster than the existing squashfuse driver due to multithreading and caching. Code is made available on request.