Brian Li

SOFTWARE ENGINEER · UBER

San Francisco Bay Area

☐ +1 (415) 359-6183 | ✉ librian415@gmail.com | 🏠 www.brianli.dev | ⬛ LiBrian415 | 🔲 librian415

Education

University of California San Diego   *La Jolla, California*
M.S. COMPUTER SCIENCE   *Sep. 2021 - Dec. 2022*
- GPA: 3.96 · Focus: Systems
- Teaching Assistant: CSE124 - Networked Services, CSE123 - Computer Networks

University of California San Diego   *La Jolla, California*
B.S. COMPUTER SCIENCE   *Sep. 2018 - Jun. 2021*
- GPA: 4.0 · Summa Cum Laude · Provost Honors

Experience

Uber   *San Francisco, California*
SOFTWARE ENGINEER I/II   *Feb. 2023 - Ongoing*
- Fulfillment Shopping Team & Forge Team
- Consistently in the 95th+ percentile for company-wide IC contributions
- Assisted with an ongoing migration effort of a key endpoint which resulted in a 39% reduction in latency and 71% reduction in server error rates
- Identified MySQL query optimizations and incorrect assumptions about isolation levels, which improved latency and correctness
- Implemented and own an internal validation service and library which is used to ensure correctness during large-impact refactors

Uber   *San Francisco, California*
SOFTWARE ENGINEER INTERN   *Jun. 2022 - Sep. 2022*
- Fulfillment Shopping Team
- Migrated and optimized the rider set info feature onto the new stack
- Created a tool to generate a graphviz graph for the internal task framework

Uber   *Sunnyvale, California (Remote)*
SOFTWARE ENGINEER INTERN   *Jun. 2021 - Sep. 2021*
- Presto Team
- Reduced the load on presto clusters by implementing a cache invalidation mechanism for repeated queries
- Implemented a feature that identifies materialized view candidates to optimize Overlapping Moving Window query signatures

Dropbox   *San Francisco, California (Remote)*
SOFTWARE ENGINEER INTERN   *Jun. 2020 - Sep. 2020*
- Sync Everything Team
- Extended the Dropbox Screenshots feature on macOS to include screen recordings
- Migrated screenshots into computer backups, allowing users to seamlessly migrate and organized saved screenshots

LinkedIn   *Sunnyvale, California*
SOFTWARE ENGINEER INTERN   *Sep. 2019 - Dec. 2019*
- Metadata Platform Team
- Designed an adapter to leverage an internal NoSQL key-value document store for better scalability
- Designed a migration plan to support hot migration with zero data loss and minimal downtime

Projects & Competition

Presto Open Source Contributions
- Added parquet block stats to operator summaries to provide visibility on the benefits of parquet column sorting
- Identified and resolved an infinite loop in the Presto Optimizer which caused timeouts and stack overflows for specific query signatures

Rusted Kafka
- Implemented a distributed message brokering service based off Kafka in Rust
- Leveraged ZooKeeper to provide distributed consensus for leader elections, metadata management, and notifications