Brian Li

COMPUTER SCIENCE · UNIVERSITY OF CALIFORNIA, SAN DIEGO

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
- TA: 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

Work Experience

Uber   *San Francisco, California*

SOFTWARE ENGINEER INTERN   *Jun. 2022 - Sep. 2022*

- Fulfillment Shopping Team
- Migrated and optimized the rider set info feature onto Fulfillment
- Built visualization tooling for execution flows in Fulfillment

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 organize 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 & Competitions

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

WIC BPC

- A quarterly programming competition hosted by Women in Computing at UCSD
- Fall 2018 - Rank: 4th/100+
- Winter 2019 - Rank: 1st/100+

Languages & Frameworks

Languages	Java · Rust · Python · Javascript · C/C++ · Haskell
Frameworks	NodeJS · Django · Flask · HTML/CSS/Javascript · Swift · React · Redux
Other	Unix · SQL · Git · Presto