

Xiayue Charles Lin

charles.lin@berkeley.edu

Current Position

PhD Student · University of California, Berkeley · 2023

RISE Lab, Department of Electrical Engineering and Computer Science

Advised by Dr. Joseph Hellerstein, Data Systems and Foundations group

Technical Skills

Python · C++ · Golang · Java

Experience

Teaching Assistant · University of California, Berkeley · 2019

CS 186: Databases (Undergraduate level, 750 students)

Teaching recitations · Content development · Review sessions · Office hours

Software Engineering Intern · Facebook, Inc. · 2017

Network Infrastructure team – Stream processing for real-time diagnostics of CDN BGP targeting performance.

Undergraduate Research Assistant · University of Waterloo · 2017

Advised by Dr. Bernard Wong and Dr. Ken Salem, School of Computer Science.

Protocols for low-latency geodistributed transactions.

RDMA for zero-copy migration in in-memory databases.

Summer Technology Analyst · PDT Partners, LLC · 2016

Data processing infrastructure to support algorithmic trading.

Software Engineering Intern · Dropbox, Inc. · 2015

Desktop Client team – Optimization of desktop client sync engine.

Core Data team – Continuous verification for database log replication.

Software Engineering Intern · LinkedIn Corporation · 2014

LinkedIn Sales Navigator product team – full stack engineering.

Education

Bachelor of Computer Science · University of Waterloo · 2018

Combinatorics and Optimization Minor

With Distinction – Dean’s Honours List

National University of Singapore · 2015

Exchange student – School of Computing

Publications

- Babar Naveed Memon, Xiayue Charles Lin, Arshia Mufti, Arthur Scott Wesley, Tim Brecht, Kenneth Salem, Bernard Wong, and Benjamin Cassell. Ramp: A lightweight RDMA abstraction for loosely coupled applications. In *10th USENIX Workshop on Hot Topics in Cloud Computing (HotCloud 18)*, Boston, MA, July 2018. USENIX Association
- Xinan Yan, Linguan Yang, Hongbo Zhang, Xiayue Charles Lin, Bernard Wong, Kenneth Salem, and Tim Brecht. Carousel: Low-latency transaction processing for globally-distributed data. In *Proceedings of the 2018 International Conference on Management of Data, SIGMOD '18*, pages 231–243, New York, NY, USA, 2018. ACM