Xiangfeng Zhu

xzhu0027@gmail.com · xzhu27.me · 650-660-0918 · github.com/Romero027 · xzhu

Education

University of Washington Expected: June 2026

Ph.D., Computer Science

Advisors: Prof. Arvind Krishnamurthy and Prof. Ratul Mahajan

University of Michigan, Ann Arbor May 2021

B.S.(with honors), Computer Science

Experiences

Microsoft Research Remote May 2021 - Aug. 2021

Research Intern Mentor: Dr. Sebastian Burckhardt

- Worked on Netherite, an efficient and reliable execution engine for stateful serverless applications
- Designed and implemented a resource-efficient scheduling algorithm for serverless functions

Software Systems Lab University of Michigan Nov. 2018 - Aug. 2021

Research Assistant Advisor: Prof. Mosharaf Chowdhury

- Developing a system for complex, real-time computer vision and natural language processing applications
- Co-Developed a participant selection framework for Federated Learning systems
- Co-Developed a general-purpose execution engine, Sol, that can adapt to diverse network conditions on top of Apache Spark.

Databricks Remote May 2020 - Aug. 2020

Software Engineer Intern Serverless Team

- Developed an efficient recycling mechanism for Spark clusters
- Designed and implemented a framework for zero downtime Spark cluster upgrade based on rolling updates and cluster pools

Disorderly Lab UC Santa Cruz Mar. 2018 - Sep. 2019

Research Assistant Advisor: Prof. Peter Alvaro

- Co-Developed a debugging approach for distributed systems based on analysis of provenance data obtained during system executions
- Evaluated our approach on the TaxDC collection of real-world bug from four large-scale distributed systems(Cassandra, Hadoop, HBase and ZooKeeper).

Dropbox San Francisco, CA May 2019 - Aug. 2019

Software Engineer Intern Filesystem Team

- Worked on the next-generation distributed filesystem for Dropbox
- Designed and implemented an asynchronous system to unmount namespaces that a user loses access to
- Rearchitected our MapReduce framework to be more efficient and fault-tolerant using RocksDB and gRPC

Skills

- Language: Java, C, C++, Python, Scala, Bash, HTML, CSS, LaTeX
- Tool: Perf, Valgrind, Git, Vim, GDB, Docker, Xcode, Flask, Pytorch
- Data: Oracle, MySQL, Hadoop, Spark, Hive