Xiangfeng Zhu

✉ xzhu0027@gmail.com · ⓘ xzhu27.me · ☎ 650-660-0918 · ⓖ github.com/Romero027 · in xzhu

🎓 Education

University of Michigan, Ann Arbor   Expected: May 2021

Bachelor of Science(with honors), Computer Science

👥 Experiences

Microsoft Research Remote   May 2021 - Aug. 2021

Incoming Research Intern   RiSE Group

- Will be joining Microsoft Research as a Research Intern this summer

Software Systems Lab University of Michigan   Nov. 2018 - Now

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 bugs 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