BSc/MSc Thesis topics on Distributed systems

December 21, 2022

1 Transactions (TXs) and KVs

- Design of a benchmarking tool for Txs
- Design of efficient Txs Protocols
- Optimization of in-memory data structures for KVs
- Performance analysis of modern KVs

2 Networked and Dependable systems

- Performance analysis of group communication primitives
- Redesigning networked systems with group communication primitives

3 Scheduling algorithms

- Resource-aware scheduling for cluster managers

[**Note**]: If you are interested in **Secure & High-performance Distributed Systems** including **Trusted Execution Environments**, **RDMA**, **DPDK**, **Byzantine Fault Tolerance**, **Crash Fault Tolerance** etc., please drop me an email and we can chat for potential thesis topics.