

YUNHAO ZHANG

✉ yz2327@cornell.edu · 🌐 www.dolobYTE.net

EDUCATION

- Cornell University**, Ithaca, United States Sep 2017 - Dec 2023
- *Ph.D.* in computer science advised by Lorenzo Alvisi
 - Facebook Ph.D. fellowship 2021 (26 out of 2163 globally)
 - Created egos-2000, a teaching operating system with 2.1K stars on Github
- Shanghai Jiao Tong University**, Shanghai, China Sep 2013 - Jun 2017
- *B.E.* in software engineering advised by Rong Chen and Haibo Chen
 - Major GPA: 4.0/4.0; Outstanding graduation thesis of Shanghai Jiao Tong University (*Top 1%*)

SELECTED PUBLICATION

- Ordered Consensus with Equal Opportunity.** Yunhao Zhang. [Dissertation]
- Byzantine Ordered Consensus without Byzantine Oligarchy.** Yunhao Zhang, Srinath Setty, Qi Chen, Lidong Zhou and Lorenzo Alvisi. [OSDI'20 *Jay Lepreau Best Paper Award*]
- Sub-millisecond Stateful Stream Querying over Fast-evolving Linked Data.** Yunhao Zhang, Rong Chen and Haibo Chen. [SOSP'17]

TEACHING EXPERIENCE

- Operating Systems & Practicum in Operating Systems** CS4410 & CS4411
- TA in fall 2018, spring 2020, spring 2021 and fall 2023
 - Co-instructor in spring 2019, fall 2020, spring 2022 and fall 2022
 - Worked with professor Robbert van Renesse and implemented a teaching operating system on QEMU and RISC-V boards with only 2000 lines of code: github.com/yhzhang0128/egos-2000.
- Networked and Distributed Systems** CS5450
- TA in 2017 fall; Worked with professor Vitaly Shmatikov.

WORK EXPERIENCE

- Firedancer**, Jump Crypto Mar 2024 – Present
- Working on Firedancer as a full-time software engineer; Firedancer is Jump Crypto's Solana consensus node implementation (github.com/firedancer-io/firedancer).
- DEX Trading Team**, Jump Crypto Jun 2022 – Aug 2022
- Architecture Team**, Lacework May 2021 – Aug 2021
- Mentor: Úlfar Erlingsson, Chief Architect
- Initiated the architecture shift from batch processing paradigm to stream processing paradigm; Led the proof of concept introducing Apache Kafka into the architecture for real-time data processing; Facilitated communications across different engineering teams and senior engineers.
- Systems Group**, Microsoft Research Asia May 2019 – Aug 2019
- Mentor: Lidong Zhou, Director and Distinguished Scientist
- Drew connections between distributed systems and economics; Outlined the design space of regulating arbitrage in blockchains; Received the Jay Lepreau best paper award at OSDI'20.
- Institute of Parallel and Distributed Systems**, SJTU Nov 2015 – Jun 2017
- Mentor: Rong Chen, Professor; Haibo Chen, Distinguished Professor
- Worked on fast and concurrent stream queries leveraging RDMA-based distributed key-value stores.

SELECTED HONOR

- CS department outstanding teaching award May 2018, May 2019, May 2020, May 2023
- President of computer science graduate organization (CSGO) Sep 2019 - Sep 2020