

# ZONGSHUN ZHANG

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## EDUCATION

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### **Boston University - USA**

*Aug. 2019 - present*

*Ph.D. in Computer Science (cGPA: 3.75/4)*

Advisor: Abraham Matta

### **University of Minnesota - USA**

*Aug. 2015 - May. 2019*

*B.S. in Computer Science (cGPA: 3.70/4)*

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, C, R, HTML, CSS, MySQL, JavaScript

**Others:** Linux/Unix, PyTorch, Kubernetes, Docker, Redis, Knative, TCP/IP, AWS Lambda, AWS EC2, GENI testbed, Chameleon Cloud, MATLAB, Apache Spark, Apache Flink, TensorFlow, PySyft, PyGrid, Apache Thrift.

## EXPERIENCE

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### **Boston University - USA**

*Sept. 2019 - present*

*Graduate Research Assistant*

- Working on devising novel schemes for efficient and cost-effective resource provisioning for cloud applications.
- Researching novel architectures for efficient deep neural networks training considering model and data privacy.
- I have published my recent research works at IEEE & ACM venues.<sup>1</sup>

### **Adobe Inc. - USA**

*May. 2022 - Sept. 2022*

*Research Engineer Intern*

- Researched and proposed resource allocation strategies for GPU-intensive systems.
- Evaluated proposed strategies for system-utilization and cost.

### **University of Minnesota - USA**

*Mar. 2018 - May 2019*

*Research Assistant*

- Reviewed the literature to devise evaluation metrics for stream processing engines.
- Tested *Apache Flink* using our evaluation metrics to benchmark its performance.

## PUBLICATIONS

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- Valeria Turina, **Zongshun Zhang**, Flavio Esposito, Ibrahim Matta. “**Federated or Split? A Performance and Privacy Analysis of Hybrid Split and Federated Learning Architectures**” *IEEE International Conference on CLOUD Computing, 2021, Virtual.*
- Ali Raza, **Zongshun Zhang**, Nabeel Akhtar, Vatche Isahagian, Ibrahim Matta, “**LIBRA: An Economical Hybrid Approach for Cloud Applications with Strict SLAs**” *IEEE International Conference on Cloud Engineering (IC2E), 2021, Virtual. (Best Paper Award!)*
- Valeria Turina, **Zongshun Zhang**, Flavio Esposito, Ibrahim Matta. “**Combining split and federated architectures for efficiency and privacy in deep learning**” *ACM International Conference on emerging Networking Experiments and Technologies 2020, Virtual.*

## AWARDS & HONORS

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- Received Ph.D. Fellowship from Boston University.
- Dean’s list for multiple semesters at **University of Minnesota**.
- Best Paper Award at *IEEE IC2E2021*.

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<sup>1</sup>Detailed description of my projects/publications can be found on my [personal webpage](#).