

Justin Miron

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EDUCATION

Ph.D. Student, Cornell University

August 2017 - May 2022 (Anticipated)

Department of Computer Science

Advisor: Rachit Agarwal

B.S., University of Illinois at Urbana-Champaign

August 2013 - May 2017

Department of Computer Engineering

Senior Thesis: "Fine-grained parallel computation in the cloud"

RELEVANT COURSEWORK

Graduate Computer Networks, Graduate Distributed Algorithms, Distributed Systems, Networking with Big Data, Algorithms and Models of Computation, Operating System Design

RESEARCH INTERESTS

Distributed systems, datacenter networking, and peer-to-peer systems

UNDERGRADUATE RESEARCH PROJECTS

Parallel object replication for scalable parallel processing

Senior Thesis

Bounded memory-efficient concurrent lock-free queue

Parallel Programming Lab

Rendezvous protocol for no-copy RDMA

Parallel Programming Lab

WORK EXPERIENCE

Software Engineering Intern at Microsoft

Aliso Viejo, CA - Summer 2017

Worked with Azure Data Warehouse team to build a prototype of a distributed query store for improved query monitoring and debugging.

Software Engineer at Charmworks Inc.

Champaign, IL - December 2017 to May 2017

Optimized a parallel runtime systems and developed distributed algorithms.

Research Assistant at Parallel Programming Lab

Urbana, IL - February 2016 to May 2017

Worked with the Parallel Programming Lab under Professor Laxmikant Kale.

Software Engineer, Tools and Infrastructure Intern at Google

Seattle, WA - Summer 2016

Implemented network health checks for the Google Compute Engine test infrastructure.

RELEVANT TEACHING EXPERIENCE

Database Systems, Cornell University, *Teaching Assistant*

Aug 2017 - Dec 2017

Data Structures, University of Illinois at Urbana-Champaign, *Course Assistant*

Aug 2015 - May 2017

PROGRAMMING SKILLS

Languages: C, C++, C#, Python, Java

Parallel Programming & Systems: Pthreads, MPI, OpenMP, Charm++, Map-Reduce, Spark