Justin M. Miron

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in **Computer Engineering,** May 2017 — Class Level: Senior

GPA: 3.62/4.0 — James Scholar Honors

Related Coursework

Distributed Systems, Machine Learning with Big Data, Networking with Big Data, Computer Systems Engineering, Algorithms and Models of Computation, Numerical Analysis, Graduate Distributed Algorithms (Fall 2016), Graduate Distributed Systems (Spring 2017).

Languages and Technologies:

Languages: C, C++, Python, Java, x86 Assembly

Parallel Programming: pthreads, OpenMP, MPI, Charm++

Internships

Google — Seattle, WA

Software Engineer, Tools and Infrastructure Intern — May 2016 – August 2016

- Worked with the Google Compute Engine team to improve debug-ability of the cloud infrastructure.
- Built tools to monitor and improve reliability of the Google Compute Engine and internal tools.

Viasat Inc. — Carlsbad, CA

Software Engineering Intern — May 2015 – August 2015

- Expanded functionality of an ACU (Antenna Control Unit) simulator to support new antenna types and hardware changes to the ACU.
- Added support for real-time modification of message data being sent during the simulation.

Work Experience

Parallel Programming Lab — Urbana, IL

Research Assistant — February 2016 – Present

- Assist in the development of new Charm++ features and tools.
- Designed and implemented an memory efficient, bounded, lock-free multi-producer multiple-consumer queue for the Charm++ runtime system.

CS 225 – Data Structures — Urbana, IL

Course Assistant — August 2015 – Present

- Teach and help students in lab sections and at personal office hours to ensure their understanding of the material.
- Assist in the development of tools to improve the quality of the course.

Projects

HPC Cluster Competition

- Selected for the UIUC SCC16 team working with Wen-Mei Hwu, Bill Gropp, and Volodymyr Kindratenko, which will be attending the competition at SC16 in the fall.

The Game – Game | C, SDL

- Created a 2D platformer about a bouncy ball seeking true love that supports rendering a constructed level, a panning view window, and extremely bouncy, bouncy ball physics.

Campus Involvement

Open Ears – President — August 2015 – February 2016

- Create a safe place for students to talk about their problems with people that are going to be there for them.

Habitat for Humanity - Member