

Jordyn Maglalang

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EDUCATION

WASHINGTON UNIVERSITY IN ST. LOUIS

PhD in Computer Science & Engineering
Locality-Aware Concurrency Platforms
Advised by Kunal Agrawal
Expected Grad. Aug 2017

ILLINOIS WESLEYAN UNIVERSITY

BS in Computer Science
Grad. May 2012

SELECTED COURSEWORK

Advanced Operating Systems
Advanced Multi-paradigm Software Development
Advanced Algorithms
Computer Systems Architecture I
Theory of Parallel Systems
Multi-Agent Systems
Approximation Algorithms
Rapid Prototype Development and Creative Programming

AWARDS

Distinguished Student Service as a University Employee - 2012
Dean's list 2009-2012

LINKS

Github://jmaglala
LinkedIn://jordyn-maglalang
GoogleScholar://jordyn-maglalang

SUMMARY

PhD candidate graduating in August 2017 with experience in project/application design, development, testing and benchmarking. Areas of expertise include parallelization and performance optimization through the use of novel scheduling algorithms and/or traditional software solutions.

EXPERIENCE

WASHINGTON UNIVERSITY IN ST. LOUIS | GRADUATE RESEARCH ASSISTANT

Aug 2012 – PRESENT | St. Louis, MO

- Developed an extensible concurrency platform for executing streaming pipeline applications
- Created a heuristic mapping algorithm which finds good static pipeline partitions that minimizes load while considering cache misses.
- Designed a novel parallel_for implementation for the CilkPlus runtime system to increase locality.

PACIFIC NORTHWEST NATIONAL LABORATORY | PHD INTERN - HIGH PERFORMANCE COMPUTING GROUP

June 2015 – Dec 2015 | Richland, WA

- Extended a dynamic task-graph scheduling library to guide scheduling decisions using user provided locality hits.
- Designed a scheduling policy to reduce remote memory accesses on NUMA machines.

ILLINOIS WESLEYAN UNIVERSITY | UNDERGRADUATE RESEARCH ASSISTANT

May 2011 – Aug 2011 | Bloomington, IL

- Extended MiniSAT, a state-of-the-art boolean satisfiability solver, to natively handle more general cardinality constraints.

ILLINOIS WESLEYAN UNIVERSITY | INFORMATION TECHNOLOGY SERVICES - STUDENT MANAGER

August 2009 – May 2012 | Bloomington, IL

- Managed both Help Desk and Service & Repair student staff
- Updated hiring, interviewing and training to better prepare new students
- Led a redesign of the student services section of the ITS website

SKILLS

PROGRAMMING

Languages: C • C++ • Python • Cilk/CilkPlus • Java • Scala • JavaScript • PHP • MySQL • Bash
Parallel libraries: pthreads • C++11 threads • boost • OpenMP • Nabbit
Visualization: pyplot/matplotlib • gnuplot
Debugging/Profiling Tools: GDB • gprof • valgrind • CilkScreen • perf/perf counters • PAPI
Project tools: \LaTeX • git • svn • make