

# Yuduo Wu

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## EDUCATION

### University of California, Davis

Master of Science, Electrical and Computer Engineering

Research Area: Parallel Computing (GPGPU), Graph Analytics

Advisor: Professor John D. Owens

Davis, CA

Sept 2015

### Macau University of Science and Technology

Bachelor of Science, Electronic Information Technology

Taipa, Macau

Jun 2013

## EXPERIENCE

### Software Engineer, IBM, Cloud Division, San Jose, CA

Sept 2015 - present

- Build robust server and client side code for IBM Bluemix platform based cloud applications
- Design and implement service REST APIs, command line, and user interface Microservices
- Develop OpenStack-powered DNSaaS, security groups, and MCaaS cloud network services

### Graduate Student Researcher, UC Davis, CA

Jan 2014 - Sept 2015

- Implemented Borůvka's parallel minimum spanning tree algorithm on GPU with C++/CUDA
- Achieved up to 120X speedup against a popular serial implementation (Boost graph library)
- Developed and maintained an open source library (Gunrock) for large-scale graph analytics
- Characterized and analyzed GPU graph analytics' high-level parallel programming models

### Internship, Defense Advanced Research Projects Agency (DARPA), Arlington, VA

Jun - Sept 2014, 15

- Built high-level pure C and Python interfaces for Gunrock to facilitate external developers
- Implemented graph algorithms to compute attributes and generated JSON for visualization

## AWARDS & HONORS

**IBM Manager's Choice Award**, International Business Machines Corp. (IBM)

May 2016

**Distinguished Paper Award**, Principles and Practice of Parallel Programming (PPoPP'16)

Mar 2016

**IBM Solutions Excellence Award (EA)**, International Business Machines Corp. (IBM)

Dec 2015

**Best Paper Finalist**, IEEE International Symposium on Workload Characterization (IISWC'15)

Oct 2015

**Dean's Honor List Scholarship**, Macau University of Science and Technology

Sept 2011, 12, 13

**Crystal Cup Award**, Top 3 in GPA, Macau University of Science and Technology

Sept 2011, 12, 13

**Nam Kwong Academic Year Scholarship**, Nam Kwong (Group) Co., Ltd, Macau

Sept 2012

## SKILLS

C/C++, Python, CUDA, Java, R, L<sup>A</sup>T<sub>E</sub>X, Shell/Bash scripting, Golang, JavaScript, MySQL

Capable of working in Unix/Linux, Mac OS X and Windows environments

## LEADERSHIP & SERVICE

**Vice President**, IEEE Student Branch of Macau University of Science and Technology

2013

Managed IEEE student members and organized academic activities.