Yuduo Wu

+1 (530) 574-9209

yuduow@gmail.com   HomePage: `http://www.yuduowu.com`

EDUCATION

University of California, Davis   *Davis, CA*
Master of Science, Electrical and Computer Engineering   *Sept 2015*
Research Area: Parallel Computing (GPGPU), Graph Analytics
Advisor: Professor John D. Owens

Macau University of Science and Technology   *Taipa, Macau*
Bachelor of Science, Electronic Information Technology   *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
- Develop OpenStack-powered DNS, network security group, and firewall as a service

Internship, *Defense Advanced Research Projects Agency (DARPA), Arlington, VA*   *Jun - Sept 2014, 2015*

- Built simple C and Python interfaces for Gunrock to facilitate external developers
- Computed centralities/recommendations and generated JSON outputs for visualization

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

AWARDS & HONORS

Distinguished Paper Award, *Principles and Practice of Parallel Programming (PPoPP'16)*   2016
Solutions Excellence Award (EA), *IBM*   2015
Best Paper Finalist, *IEEE International Symposium on Workload Characterization (IISWC'15)*   2015
Dean's Honor List Scholarship, *Macau University of Science and Technology*   2011, 2012, 2013
Crystal Cup Award, Top 3 in GPA, *Macau University of Science and Technology*   2011, 2012, 2013
Nam Kwong Academic Year Scholarship, *Nam Kwong (Group) Co., Ltd, Macau*   2012

SKILLS

C/C++, Python, CUDA, Java, R, LaTeX, 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.