Christopher Michael Kirkland

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Objective

Use my background in Computer Science and Math to tackle difficult Engineering problems and produce quality software, particularly in the areas of cloud infrastructure and web services.

Education

North Carolina State University, Raleigh, NC, 27695
M.S. in Applied Mathematics, Dec. 2014
Computational Mathematics concentration, 3.93 GPA

Mercer University, Macon, GA, 31207
B.S. in Mathematics, May 2012
B.A. in Computer Science, May 2012
Summa Cum Laude, 3.98 GPA

Work Experience

International Business Machines — June 2015 - current
11501 Burnet Rd, Austin, TX 78758
Cloud Performance Engineer
Improved the performance of IBM Cloud infrastructure and Cloud services. Focused on OpenStack services Nova, Heat, and Keystone as well as BlueMix web services. Job responsibilities include development, maintenance, and orchestration of bechmarks; results analysis; and producing technical reports for executive consumption. Secondary responsibilities include serving as primary git master for squad and technical mentoring of new team members and interns.

North Carolina State University — August 2012 - April 2015
2310 Stinson Dr, Raleigh, NC 27695
Mathematics Graduate Teaching Assistant
Taught and graded for undergraduate mathematics courses including Finite Mathematics, Precalculus, Calculus I, Calculus III, and Differential Equations.

Terma North America — May 2011 - August 2011
601 Russell Parkway, Warner Robins, GA
Software Development Intern
Developed and improved internal tools for automatically generating documentation for embedded Aircraft systems. Also, unit tested production software for flight systems integration suites.

Presentations

OpenStack Summit Barcelona (Accepted) — October 27, 2016
A Nova Scheduler for Public Cloud Scale

Research

Graduate Research Assistant (H. Hong) — June 2014 - March 2015
Worked on improving interval methods for solving real, square, conservative polynomial systems with few real roots. In particular, I worked to profile and improve upon existing software for solving real systems with sparse real solutions (compared to complex) improving the underlying algorithms.

Technical Skills

Languages (by proficiency) : Python, Bash, Golang, SQL
DevOps tools : Ansible, ELK/ElasticStack, Graphana
Web Technologies : jQuery/Javascript, PHP, HTML, CSS
Math Tools : Mathematica, Maple, Matlab, Bertini, PHCPack, C-XSC, LaTeX

Award and Honors

IBM Cloud Infrastructure Services "Eminence and Excellence Award" 2015
NCSU Math Department Graduate Research Followship, Spring 2015
NCSU Math Department Outstanding Teaching Assistant 2013
Mercer University Riley Plymale Award for Excellence in Mathematics 2011-2012
Mercer University Outstanding Junior in Computer Science 2010-2011