

Christopher Michael Kirkland

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Objective

Use my background in Computer Science and Math to tackle difficult 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 through performance testing. Focused on OpenStack services Nova, Heat, and Keystone as well as BlueMix AutoScale service. Job responsibilities include development, maintenance, and orchestration of testing tools; results analysis; and producing technical reports for executive consumption. Secondary responsibilities include serving as primary git master for performance 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.

Research

Graduate Research Assistant (H. Hong)

Summer - Fall 2014

Worked on improving interval methods for solving real, square, conservative polynomial systems with few real roots. In particular, I worked to improve available existing software for solving real systems with sparse real solutions (compared to complex).

NCSU Research Experience for Graduates (K. Misra)

Summer 2012

Investigated representations of Semisimple Lie Algebra including the Littlewood-Richardson Algorithm for maximal decompositions.

Computer Skills

Languages (by proficiency) : Python, Bash, Golang, SQL

Web Technologies : jQuery/Javascript, PHP, HTML, CSS

Math Tools : Mathematica, Maple, Matlab, Bertini, PHCPack, C-XSC, L^AT_EX

Award and Honors

IBM Cloud Infrastructure Services “Eminence and Excellence Award” 2015

NCSU Math Department Graduate Research Fellowship, 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