

Christopher Michael Kirkland

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Objective Tackle difficult Engineering problems and produce quality software, particularly in the areas of cloud computing and web services, with an emphasis on scalability, reliability, and performance.

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
11501 Burnet Rd, Austin, TX 78758
Staff Software Engineer, Container Autoscaling Feb 2017 - current
Supported the delivery of the IBM Container Service based on Kubernetes to market. Worked on core services including framework for monitoring, alerting, and metric aggregation at the cloud platform level. Also improved common microservice library for ETCD transactions for better reliability and resiliency.

Staff Software Engineer, Cloud Performance June 2015 - Jan 2017
Improved the performance of IBM Cloud infrastructure and Cloud services. Focused on Open-Stack 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.

Technical Skills *Languages:*
Proficient: Golang, Python, Bash
Familiar: Javascript

DevOps tools : Ansible, Prometheus, Grafana, ELK/ElasticStack
Web Technologies : HTML/Pug, CSS/Sass
Math Tools : L^AT_EX, Mathematica, Maple, MatLab

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

Conferences	OSCON Austin (Attendee)	May 2017
	DockerCon Austin (Attendee)	April 2017
	OpenStack Summit Barcelona (Presentation Accepted) <i>A Nova Scheduler for Public Cloud Scale</i>	October 2016
Research	Graduate Research Assistant (H. Hong) <i>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.</i>	June 2014 - March 2015