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

Mercer University, Macon, GA, 31207
B.S. in Mathematics, May 2012
B.A. in Computer Science, May 2012

Work Experience

International Business Machines — Sept 2017 - Current
Advisory Software Engineer - Containers

International Business Machines — Feb 2017 - Aug 2017
Staff Software Engineer - Containers
Worked on various backend services for IBM's Container Service based on Kubernetes. Developed and maintained critical pieces of the control plane including offering usage metrics, microservice monitoring, and customer logging and metrics support. Designed and developed a scalable solution, based on Prometheus, for monitoring services deployed on customer clusters in a Kubernetes-on-Kubernetes architecture. Worked on first-class logging and metrics solution, based on Fluentd, used to support both infrastructure and customer clusters.

International Business Machines — June 2015 - Jan 2017
11501 Burnet Rd, Austin, TX 78758
Staff Software Engineer - 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.

Conferences

KubeCon/CloudNativeCon Austin	December, 2017
OSCon Austin	May, 2017
DockerCon Austin	April, 2017
OpenStack Summit Barcelona	October 27, 2016

Accepted Presenter: *A Nova Scheduler for Public Cloud Scale*

Technical Skills

Languages :
  Expert: Golang
  Proficient: Python, Bash
  Familiar: Ruby, Javascript

DevOps tools : Ansible, Fluentd, Filebeat, Prometheus, Grafana, Jenkins, Travis

Award and Honors

Manager's Choice Award 2017 (Mgr. Brian Countryman)
IBM Cloud Infrastructure Services "Eminence and Excellence Award" 2015