RYAN COLE

SOFTWARE ENGINEER

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- ○ 14rcole

I am a Junior at Lehigh University majoring in Computer Science. I am always open to and interested in learning new things, although I am particularly interested in operating systems and cloud infrastructure.

Skills

LANGUAGES

Golang
C
Python
Bash
Java

PLATFORMS

Linux
Windows
OpenShift

TOOLS

Docker
Kubernetes
Git
Containers

Education

Lehigh University
B.S. Computer Science 2018
GPA: 3.2
Courses include: Systems Software, Computer Architecture, Operating Systems, Algorithms, and Data Structures

Westford Academy
2014

Employment

Red Hat — Boston, MA
Software Engineering Intern — Jun 2016 to Aug 2016
- Develop Go bindings for Ostree, which was written in C
- Build tooling to explode Docker images onto persistent storage on a Kubernetes cluster

Lehigh International Multimedia Resource Center — Bethlehem, PA
Web Developer — Aug 2015 to Current
- Develop websites for groups on campus, manage the servers hosting these sites, and help migrate all of the sites to a new set of servers.

Kimball Farms — Westford, MA
Bumper Boat Attendant — Apr 2013 to Aug 2015
- Assist customers in getting on and off of bumper boats and assured their safety while on the ride

Projects

ostree-go — Jun 2016 to Aug 2016
Golang bindings for ostree, a "git-like" model for committing filesystem trees

os-explode — Jul 2016 to Aug 2016
- Watch for images being pushed onto an OpenShift registry and explode them on to persistent storage
- The images can then be run without the docker daemon, scanned for security vulnerabilities, etc

colang — Aug 2016 to Current
A simple functional programming language written in C

QBits — Mar 2016 to Mar 2016
- Project for Lehigh Hacks 2016
- A mobile app for visualizing power consumption data and providing predictive analytics for Lutron lighting systems

Awards

Boy Scouts of America · Rank of Eagle Scout — Aug 2013

Activities

Programming Club — Aug 2015 to Current
- Attend presentations on various technologies
- Give a presentation on Containerization and Docker for fall 2016

A Whole Step Up Acapella · Music Director — Aug 2016 to Current
- Arrange music for the group to perform
- Plan and lead rehearsals
- Teach music to members at a variety of skill levels
- Plan concerts and other events

Volunteering

Lehigh Community Service Office · SERVE Participant — Mar 2016 to Mar 2016
Charleston, SC
- Assist owner of Habitat for Humanity ReStore in cleaning up and organizing the store
- Work with WINGS for Kids, a non-profit dedicated to helping students in Title I school systems develop strong academic and social skills via an after school program