

## INTERESTS

Automation, big data, blockchain, embedded/IoT, open source, and security

## WORK EXPERIENCE

### **Endless Computers** (San Francisco, CA)

*Distributed Systems Architect*, Oct 2016 - present

- ▶ Migrated Endless OS build infrastructure to AWS using Ansible
- ▶ Created REST interface for in-house API using Python Flask
- ▶ Architected a cloud-based data pipeline for metrics analysis (HDFS, YARN, Hive, Spark, Zeppelin)
- ▶ Assisted with analytics queries, data visualization, and generating reports for business stakeholders

### **Hortonworks, Inc.** (Santa Clara, CA)

*Senior Product Specialist - Tools*, Jan 2016 - Aug 2016

- ▶ Led initiatives to centralize tools used by the Support organization
- ▶ Automated provisioning of virtual HDP clusters for education and issue reproduction
- ▶ Conducted weekly analysis of production-down support cases to generate new requirements for SmartSense data collection and rule definitions, assisted w/development
- ▶ Authored training exercise to certify support engineers on competence of the customer-facing SmartSense tool and use of the backend service (highest participation rate of all exercises)
- ▶ Analyzed support case data with a Zeppelin notebook to identify areas of greatest concern

### **Hortonworks, Inc.** (Santa Clara, CA)

*Platform Support Engineer*, Sep 2014 - Dec 2015

- ▶ Supported enterprise customers for diagnosing, reproducing, and fixing advanced components of the Hortonworks Data Platform
- ▶ Took ownership of problem isolation, resolution, and bug reporting
- ▶ Drove internal knowledge management initiatives and assist the frontline support team
- ▶ Created Salesforce dashboard, which was opened for use by entire Support organization
- ▶ Subject Matter Expert for: AppDev (Storm, Kafka, Pig, Hive), Security (Knox, Ranger, Kerberos, LDAP, SSL), and Hadoop (HDFS, YARN, MapReduce, Zookeeper)

### **Modea** (Blacksburg, VA)

*DevOps Engineer*, 2013 to 2014

- ▶ Architected, built, and maintained hybrid cloud infrastructure (AWS + baremetal) for SaaS platform
- ▶ Co-developed mobile device virtualization backend
- ▶ Researched Android platform & internals to optimize device images
- ▶ Created diagrams & documentation for both technical reference and marketing purposes
- ▶ Ansible, Jenkins, Node.js, Mocha, AWS (EC2, S3, CF, ELB, IAM), New Relic, Android SDK, Qemu

### **Modea** (Blacksburg, VA)

*Network Operations Manager*, 2007 to 2013

- ▶ Scaled IT operations from 12 initial employees to support >100 employees (vSphere, SAN, Cisco)
- ▶ Managed hosting infrastructure at Rackspace for client projects
- ▶ Maintained annual budget, led disaster recovery initiative as part of business continuity plan
- ▶ Hired help desk employees, established relationship with MSP to take over expert roles

### **TacPro Systems LLC** (Blacksburg, VA)

*Owner*, 2013 to 2014

- ▶ Performed independent IT services and consulting for small enterprises
- ▶ Infrastructure improvement plan, P2V server consolidation, backup system repair & upgrades

## EDUCATION

Virginia Tech (Blacksburg, VA) *B.S. in Computer Engineering*, 2013

## CERTIFICATIONS

**Apache Hadoop Administrator 2.x** - Hortonworks, license 008-00176 - Feb 2015

**Apache Hadoop 2.0 Java Developer** - Hortonworks, license 006-00136 - Nov 2014

## PERSONAL PROJECTS

**Kubernetes home lab** - study containerization, host internal home services (monitoring/logging/dashboard, UniFi wifi controller, git, file server, backups, build environments)

**OPNsense gateway appliance** - exercise networking skills, provide home network security

**Sandstorm.io** - self-hosted alternative to Google Apps, Evernote, Github, etc