

Steven Powell

SOFTWARE ENGINEER

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Skills

Languages Python, Groovy

Frameworks Jenkins, Docker, Ansible, OpenStack, Artifactory, Make

Certifications CCNA (expired), Security+ (expired), SAFe Practitioner (expired), SAFe DevOps Practitioner (expired)

Experience

ADTRAN

DVT ENGINEER II

Huntsville, AL

Sept 2014 - Present

- Build automated Jenkins pipelines with tests running in dockers
- Write, review, and debug automated tests
- Build automation tools for device upgrades, test debugging, monitoring and spinning up OpenStack instances
- Write python packages with unit and acceptance testing in dockers
- Maintain Linux servers and automation test beds
- Co-op student mentor
- Hackathon organizer

Corr Wireless

SWITCH TECH

Huntsville, AL

Jan 2006 - Sept 2014

- Manage network and cell network
- E911 Administration
- Roaming coordination between other wireless providers
- Build automated network backups, and performance monitoring
- Build database, web, and Exchange servers

API Digital

TECH SUPPORT II

Huntsville, AL

Aug 2003 - Dec 2005

- Manage network and customers' networks
- Manage web, mail, FTP, radius, and name servers
- Provide tech support for end users' network/servers
- Trained support team

Projects

Hackathons

- Built device costing <\$150 to control and monitor set top boxes replacing some need for devices costing >\$1000.
 - Python script accessing infrared transceiver on Raspberry Pi's GPIO to control set-top box.
 - Monitored data to verify channel activity

Hydra

- Moved services from single physical server to individual docker containers: web ui, web api, web proxy, beanstalkd, database
- Wrote ansible playbook to spin up host instance and all service containers in OpenStack from job in Jenkins

Wifi

- Built out test bed containing wifi controller, APs, and networking gear
- Wrote Robot Framework upgrade tests
- Tests drove wifi controller via web ui using customer workflow
- Integrated tests into Jenkins automation pipeline

Vulture

- Wrote Python log collection utility for postmortem test failure analysis
- Collected device logs, cli command output, and automated Robot Framework test logs

Education

University of Alabama in Huntsville

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Huntsville, AL

2018 - Present

ITT Technical Institute

ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE

Birmingham, AL

2000 - 2002