

Steven Powell

SOFTWARE ENGINEER

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Skills

Languages Python, Groovy

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

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

Experience

C Spire/TEKsystems

Huntsville, AL

NETWORK TOOLS AND AUTOMATION ENGINEER

Sept 2021 - Present

- Support Network Operation team
 - Maintain automated customer provisioning software
 - Build Python tools for managing network devices
 - Maintain Linux systems
 - Support third party vendor applications: Adtran AOE, Nokia AMS, Calix CMS
 - On-call for outage emergencies
- Manage employee intranet web page
 - Manage backend SQL database
 - Automate vendor database performance stat collection
 - Build device performance reports
- Manage central EMS collection system
 - Collect alarms from multiple systems via SNMP traps and text files
 - Build alarm correlation rules
 - Build performance alert notifications
 - Automate performance reports

ADTRAN

Huntsville, AL

DVT ENGINEER II

Sept 2014 - Sept 2021

- Build automated Jenkins pipelines with tests running in dockers
- Write, review, and debug automated Robot Framework tests including JSON variable files
- Build automation tools for device upgrades, test debugging, and managing OpenStack instances
- Write Python packages with unit and acceptance testing in dockers
- Maintain Linux servers and automation test beds
- Co-op student mentor
 - Manage day-to-day activities
 - Assess technical and soft skill levels
 - Assign projects to promote growth
- Hackathon organizer

Corr Wireless

Huntsville, AL

SWITCH TECH

Jan 2006 - Sept 2014

- Managed network and cell network
- E911 administration
- Roaming coordination between other wireless providers
- Built automated network backups, and performance monitoring
- Built database, web, and Exchange servers

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
- Wrote Ansible playbook for mass in-house device upgrades

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

Wi-Fi

- Built out test bed containing Wi-Fi controller, APs, and networking infrastructure
- Wrote Robot Framework upgrade tests
- Tests drove Wi-Fi controller via web UI, simulating 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

ITT Technical Institute

ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE

Birmingham, AL

2000 - 2002

Community

Rocket City Gator Club

MEMBER

- Community service activities

Tour de Ville

VOLUNTEER

- Annual Boys and Girls Clubs of North Alabama fundraiser