

Steven Powell

SOFTWARE ENGINEER

☎ (256) 636-1620 | ✉ spowell2099@gmail.com | 📱 princeodd47 | 🌐 steven-powell-7ba12b3

Skills

Languages Python

Technologies 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
 - Find solutions to automate their daily needs
 - * Use existing EMS web page to display alarms indicating active generators/power outages
 - * Build python library to run CLI commands across multiple devices
 - * Investigate new workflows for potential automation solutions
 - Maintain in-house captivel portal automated customer provisioning system and Python code base
 - Maintain 3rd parth vendor applications: Adtran AOE, Nokia AMS, Calix CMS, Finepoint Mountainview
 - * Troubleshoot application failures
 - * Interface with vendor for multiple teams questions and issues
 - * Upgrade application
- Maintain TASQL database
 - Automate collection of customer device and performance data using stored procedures
 - Build customer device performance reports to proactively solve hardware and software issues
- Manage central EMS collection system
 - Collect alarms from multiple systems via SNMP traps and text files
 - Correlate alarms grouping affected systems by outage and prevent redundant notifications
 - Build performance alert notificaitons
 - Automate performance reports

ADTRAN

Huntsville, AL

DVT ENGINEER II

Sept 2014 - Sept 2021

- Write and maintain Jenkins Pipeline DSL jobs for running acceptance, unit, and solution tests in docker containers
- Write, review, and debug automated acceptance tests written in Robot Framework
- Build automation tools for device upgrades, test debugging, and managing OpenStack instances
- Implemented Python libraries, unit tests, and acceptance tests using a customized container environment
- Build and maintain automation test beds
 - Plan, build and install networking devices
 - Install physical and virtual tested devices
 - Install and update firmware and software as needed
 - Document management, useage and troubleshooting information
 - Work with other teams to troubleshoot issues
- Maintain Linux containers
 - Work with other teams to build OpenStack instances to meet their needs
 - Build and publish docker images for use in automated testing
- Co-op student mentor
 - Manage day-to-day activities
 - Assess technical and soft skill levels
 - Assign projects to promote growth
- Hackathon organizer
 - TODO

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