



SUMMARY OF QUALIFICATIONS

An RHCE and AWS certified information technology professional with hands-on experience in the design, implementation, and support of IT infrastructure including public/private clouds, Linux and Windows systems, software development, and software deployment.

PROFESSIONAL EXPERIENCE

CURRENT	<p>Freelance Software Developer, Systems Engineer</p> <p>Software development and systems engineering/administration.</p> <p>Highlights:</p> <ul style="list-style-type: none">• Ribose Inc - Developing Ruby bindings for a native OpenPGP library.• Sonata Learning - Assisting with AWS deployments/administration and re-designing for a more resilient production environment.
MAR 2016	<p>Systems Engineer for FEMA (Contractor)</p>
FEB 2014	<p><i>Expeditionary Enterprise Engineering (E3)</i></p> <p>Responsible for administering Linux servers, Apache and Tomcat services, the Hitachi SAN, and Windows servers. Also responsible for imaging/testing GIS laptops to deploy to disaster sites.</p> <p>Highlights:</p> <ul style="list-style-type: none">• Administered and deployed physical and virtual (ESXi/vSphere 5) RHEL 5/6/7 systems and handled upgrades of OS and application components (Tomcat, Apache reverse-proxy, others).• Developed kickstart installations for rapid, secure deployment of new RHEL systems.• Proactively identified and resolved security issues on both private and public servers, running and utilizing security scans and other resources.• Responded to and acted on any security incidents reported by the SOC, assessing severity of threats.• Monitored service usage to identify and block illegitimate uses and free up resources.• Implemented backups, time synchronization, and centralized logging for Linux systems across varying environments.• Drastically reduced the time to deploy Windows-based GIS laptops to the field via automation. <p>Developer / Cloud Engineer at NEW LIGHT TECHNOLOGIES, INC.</p> <p><i>Cloud and Virtualization Solutions</i></p> <p>Responsible for administering the NLT Amazon EC2 infrastructure.</p> <p>Highlights:</p> <ul style="list-style-type: none">• Designed and implemented a simple web interface for managing AWS EC2 instances using Django, Celery, Redis, memcached (previously), RabbitMQ, and AngularJS. Deployed with Ansible.• Designed an Active Directory infrastructure in the cloud with VPN connectivity.• Created and administered a developer environment composed of Ubuntu systems in the AWS cloud with xrdp access.
SUMMER 2012	<p>Developer on iPXE</p> <p><i>Google Summer of Code</i></p> <p>Rewrote the Broadcom NetXtreme II NIC driver for iPXE based on the official datasheet and new Linux bnx2 driver.</p> <p>info repo</p>
SUMMER 2011	<p>Developer on OPENIMAGEIO</p> <p><i>Google Summer of Code</i></p> <p>Wrote plugin for reading Adobe Photoshop PSD files.</p> <p>repo</p>
SUMMER 2010	<p>Developer on LIBSDL</p> <p><i>Google Summer of Code</i></p> <p>Implemented Windows input method support, allowing text input for Chinese, Japanese, and Korean languages.</p> <p>repo</p>

TECHNICAL SKILLS

	Used Very Often	Used Frequently	Used Occasionally
Skill/Technology	Linux (RHEL, many) Ansible Python Django C/C++ Bash Docker AWS EC2/VPC, etc.	Kubernetes Terraform Jenkins Ruby, Ruby on Rails Apache, Nginx HTML,CSS Javascript/ES6/JSX React	Golang, Java CoreOS, FreeBSD AngularJS 1 Google GCE/GKE Microsoft Azure Windows Server 2012 PowerShell Active Directory / LDAP VMware vSphere 5/6

OPEN SOURCE PROJECTS

⌘ BITSEE	RUBY
Ruby on Rails bitcoin blockchain embedded data extractor/viewer.	
⌘ PASTELY	PYTHON,ES6
An online code paste service using React, Django, Ansible, Docker, and Kubernetes. Full CI/CD pipeline utilizing Jenkins and other tools.	
MICRONOTES	GOLANG
Simple microservices-based web application making use of Consul, Vault, Vagrant, SaltStack, PostgreSQL, Cassandra, JWT tokens, and many other tools.	
⌘ NCTGPIO	C
FreeBSD driver for the GPIO functionality of the NCT5104D Super I/O chip. Accepted in to FreeBSD mainline.	
⌘ FPANELKB	C,ASM
USB HID device firmware for the front-panel of a Speco PC Pro CCTV DVR.	
⌘ VC0706	C++
Software to control a VC0706-based JPEG camera via a computer serial port.	
⌘ MCP23008	C++
mbed library for the MCP23008 I/O expander. Tested on an LPC1768.	
⌘ SEAGATE-LEDS	C++
Linux software to control Seagate external hard disk LEDs and query feature information.	

CERTIFICATIONS

- Red Hat Certified Engineer (RHCE)
- Red Hat Certified System Administrator (RHCSA)
- AWS Certified Solutions Architect - Associate
- AWS Certified SysOps Administrator - Associate
- AWS Certified Developer - Associate
- CompTIA Linux+ Network+ A+
- Linux Professional Institute LPIC-1
- SUSE Certified Linux Administrator
- Microsoft Certified Professional (MCP)