Daniel E. Wyatt

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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 systems, software development, and software deployment.

PROFESSIONAL EXPERIENCE

CURRENT

Linux and Python Tutor at PARLIAMENT TUTORS

Independent tutoring on the topics of Linux and Python programming.

MAR 2016
FEB 2014

Systems Engineer for FEMA (Contractor)

Expeditionary Enterprise Engineering (E3)

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.
Highlights:

- 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 techniques.
- Responded to and acted on any security incidents reported by the SOC, determining severity of threats.
- Monitored service access to identify and block illegitimate uses and free up resources.
- Implemented backups, time synchronization, and centralized logging for Linux systems across varying environments.
- Implemented new laptop imaging system with MDT, drastically reducing the time to deploy laptops to the field and reducing human error.

Developer / Cloud Engineer at NEW LIGHT TECHNOLOGIES, INC.

Cloud and Virtualization Solutions

Responsible for administering the NLT Amazon EC2 infrastructure.
Highlights:

- Designed and implemented a simpler 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 for NLT with VPN connectivity.
- Created and administered a developer environment composed of Ubuntu systems in the AWS cloud with xrdp access.
- Supported developers by automating processes and acting as the cloud liaison.

SUMMER 2012

Developer on iPXE

Google Summer of Code

Rewrote the Broadcom NetXtreme II NIC driver for iPXE based on the official datasheet and new Linux bnx2 driver.

info repo

SUMMER 2011

Developer on OPENIMAGEIO

Google Summer of Code

Wrote plugin for reading Adobe Photoshop PSD files.

repo

SUMMER 2010

Developer on LIBSDL

Google Summer of Code

Implemented Windows input method support, allowing text input for Chinese, Japanese, and Korean languages.

repo

Technical Skills

Skill/Technology	Used Very Often	Used Frequently	Used Occasionally
	Linux (RHEL, many)	Kubernetes	Golang, Java
	Ansible	Terraform	CoreOS
	Python	Jenkins	FreeBSD
	Django	Apache, Nginx	AngularJS 1
	C/C++	HTML,CSS	Google GCE/GKE
	Bash	Javascript/ES6/JSX	Microsoft Azure
	Docker	React	Windows Server 2012
	AWS EC2/VPC, etc.	I2C/TWI, SPI, GPIO	PowerShell
			Active Directory / LDAP
			VMware vSphere 5/6

Open Source Projects

⚬ 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.
Support included for the buttons, knobs, LCD, and infrared remotes.

⚬ 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.
Involved reverse-engineering some Windows software and some firmware.

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)