# Daniel E. Wyatt



# SUMMARY OF QUALIFICATIONS

A software developer and systems engineer with hands-on experience in the design, implementation, and support of IT infrastructure including public/private clouds, Linux and Windows systems, and CI/CD pipelines.

### Professional Experience

#### CURRENT

#### Freelance Software Developer, Systems Engineer

Software development and systems engineering/administration.

- Ribose, Inc. Developer CI/CD engineer on various projects
  - $-\,$  rnp a native C/C++ OpenPGP library and tool suite
    - py-rnp, ruby-rnp FFI bindings for rnp
    - enprot a confidentiality processor for text and source code files
    - ruby-botan Ruby bindings for the Botan cryptographic library
    - Botan various contributions
    - $-\,$ rpm-spec-automake 116-automake, rpm-spec-botan<br/>2 - various RPM specs for CentOS
- Sonata Learning Assisting with AWS deployments/administration and re-designing for a more resilient production environment.

#### 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.

- Deployed and administered physical and virtual (ESXi/vSphere 5) RHEL systems.
- Pro-actively identified and resolved security issues on both private and public servers.
- Responded to and acted on any security incidents reported by the SOC, assessing severity of threats.
- 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.

#### Developer / Cloud Engineer at New Light Technologies, Inc.

Cloud and Virtualization Solutions

Responsible for administering the NLT Amazon EC2 infrastructure.

- 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**

#### 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.

**z**info **z**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

	Extensive Experience	Moderate Experience	Some Experience
Skill/Technology	Linux (RHEL, many)	Kubernetes	Golang, Java
	Ansible	Terraform	CoreOS, FreeBSD
	Python	Jenkins	AngularJS 1
	Django	Ruby, Ruby on Rails	${\it Google~GCE/GKE}$
	C/C++	Apache, Nginx	Microsoft Azure
	Bash	HTML,CSS	Windows Server 2012
	Docker	Javascript/ES6/JSX	PowerShell
	AWS EC2/VPC, etc.	React	Active Directory / LDAP
		Rust	VMware vSphere 5/6

# PERSONAL 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.

 $^{\circ}$  MCP23008

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)