Daniel E. Wyatt

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D e W

About Me

I live to learn. I enjoy Systems Engineering, Software Development, Embedded Systems, and many other things.

I love to automate things that do not require manual human intervention, and making people's jobs easier.

As a hobby I like to work with embedded devices, low-level drivers, microcontrollers, and electronics.

Experience

CURRENT

Computer Science Tutor at Parliament Tutors

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 E3 Linux servers, the Hitachi SAN, and some Windows servers. Also responsible for imaging/testing GIS laptops to deploy to disaster sites. Achievements:

- Planned and implemented FEMA/DHS central logging requirements for Linux servers.
- Proactively identified and resolved security issues on public-facing servers.
- Responded to security incidents reported by the SOC.
- Mitigated numerous vulnerabilities as reported by Tenable security scans.
- Analyzed access logs to identify bad requests and block bots typing up resources of DMZ servers.
- Implemented disk-to-disk backups for most E3 Linux servers.
- Implemented time synchronization across all E3 Linux servers.
- Implemented new laptop imaging system with MDT, reducing the time to image laptops by half and reducing human error.

Developer at New Light Technologies, Inc.
Cloud and Virtualization Solutions

Responsible for administering the NLT Amazon EC2 infrastructure. Achievements:

- Designed and implemented a web interface for 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.

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.

tgz

Summer 2010

Developer on libsdl
Google Summer of Code

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

repo

Open Source Projects

⚲ Pastely   Python,ES6

An online code paste service using React, Django, Ansible, Docker, and Kubernetes.
Note: Limited browser support due to use of CSS flexbox. Try modern Firefox/Chrome.

⚲ NCTGPIO   C

FreeBSD driver for the GPIO functionality of the NCT5104D Super I/O chip.
Committed to FreeBSD.

⚲ 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.

⚲ SFTTF   C++

TrueType font support for SFML.

Technical Skills

	Used Very Often	Used Frequently	Used Occasionally
Skill/Technology	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

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)