daniel@dewyatt.com 540.331.8348 Winchester, VA

# Daniel E. Wyatt

**dewyatt.com** github.com/dewyatt



### 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.
- $\bullet\,$  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. <b>Note</b> : Limited browser support due to use of CSS flexbox. Try modern Firefox/Chrome.	
% NCTGPIO	$^{\mathrm{C}}$
FreeBSD driver for the GPIO functionality of the NCT5104D Super I/O chip. Committed to FreeBSD.	
% FPANELKB	$_{\rm C,ASM}$
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	$\operatorname{FreeBSD}$
	Django	Apache, Nginx	AngularJS 1
	C/C++	HTML,CSS	${\it Google~GCE/GKE}$
	Bash	$\rm Javascript/ES6/JSX$	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)

## OTHER OPEN SOURCE CONTRIBUTIONS

UBUNTU | Reimplemented type-ahead find in Nautilus. Code is now maintained by Canonical and is

present in Ubuntu 14.04+.

**≥**bug **≥**launchpad

WIRESHARK | Improved USB packet heuristics to recognize some SCSI protocol elements.

**⊿**bug **⊿**git

Nautilus | Fixed a bug that caused CPU exhaustion in Nautilus.

**⊿**git

EPIPHANY | Fixed multiple bugs.

**⊿**git

GNOME | Fixed a bug in GNOME System Log.

**⊿**git

TIGERVNC | Fixed a bug causing constant crashes on Windows platforms.

**⊿**github