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# Andrew A. Hamilton <andrew@ahamilto.net>

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## PERSONAL STATEMENT

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As a motivated individual in the IT field, I am capable of quickly learning and deploying new technologies. I take a logical and strategic approach both to trouble-shooting existing problems and developing solutions to meet current and future needs. In developing solutions, I make sure that all stakeholders are involved throughout the process to ensure that the final product meets everyone's needs.

## PROFESSIONAL EXPERIENCE

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### Nodal Exchange, LLC

*April 2016 - Present*

#### Systems Administrator/Engineer

- Responsible for security, management, and availability of Development, DR, and Production environments across three datacenters
- Automated software deployment and configuration tasks via Puppet
- Created scripts to automate and simplify operational tasks for various teams
- Improved and tuned monitoring systems and thresholds
- Improved the network architecture for enhanced security and reliability
- Developed processes for forensic data processing

### Thomas Jefferson High School For Science and Technology

*July 2009 - February 2016*

#### Network / Systems Administrator

- Responsible for security, management, and availability of the school's Linux VM Infrastructure and Computer Lab.
- Oversaw and mentored approximately 15 Student Systems Administrators maintaining the above systems.
- Responsible for production and streaming of school-wide events to internal and external endpoints.
- Shared management responsibility for the school's core and border routers including access-lists and policy-based routing.
- Deployed comprehensive network monitoring for approximately 50 servers, 40 VMs, and 50 network switches.
- Designed, implemented, and maintained multiple, complex, web applications for process automation.
- Automated system configuration and software deployment using SaltStack
- Designed and implemented a redundant VM storage system encompassing 30TB of tiered storage.

### Capable Computers / Angelus Academy

*August 2012 - November 2015*

#### Systems Administrator

- Assisted with the installation of a physical cable plant consisting of 52 Category 5 Network Drops and 6 Cable TV drops.
- Installed and configured a CentOS content filter and VM Server
- Installed and configured Windows Server 2008 R2 and SCCM 2012
- Imaged, deployed, and managed 30 workstations using SCCM with PXE-Imaging.

## TECHNOLOGY PROFICIENCIES

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- Clients: Windows XP, Vista, 7, 8.1, 10, Android, Linux (Fedora/Debian/Ubuntu/Gentoo)
- Servers: Windows 2003, 2008, 2012, Linux (Redhat/CentOS/Debian/Gentoo), OpenBSD, FreeBSD, Solaris
- Microsoft system management using SCCM and policy enforcement using Active Directory and Group Policy
- Server virtualization using Linux-KVM, Microsoft Hyper-V, and VMware ESXi
- Storage Management using iSCSI, NFS, CIFS, and ZFS
- Apache, Nginx, IIS, and JBoss/Wildfly Webservers, wsgi application deployment and proxy configurations
- DNS (Bind and Microsoft) and DHCP (ISC and Microsoft)
- Squid Proxy as both a caching server and a content filter
- Postfix/Dovecot email servers and the Mailman listserver
- Network Monitoring using Nagios, Zabbix, Cacti, MRTG, Observium, and Netdisco
- Command-line administration of Cisco, HP, Juniper, and Arista network devices
- Network Traffic Analysis using TCP Dump/Wireshark Packet Captures and Netflow Captures
- Programming/Scripting Languages: Python and Flask/Django, PHP, Bash, C, Java
- System configuration management and state enforcement using Salt and Puppet
- Code and configuration version control using Git and Github, Gitlab, and BitBucket
- Audio-Visual equipment: sound and lighting boards, AV switchers, and video cameras
- VBrick Streaming equipment: 9000 series HD encoders, DME streaming server, VEMS Media Platform

## **EDUCATION**

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**Western Governor's University**  
**BS Information Technology, Security Concentration**

*October 2016*

**Thomas Jefferson High School For Science and Technology**  
**Advanced Studies Diploma**

*Class of 2009*

### **Certifications:**

- CCNA Routing and Switching
- CCNA Security
- CompTIA A+, Network+, Security+, Linux+, and Project+
- Linux Professional Institute LPIC-1

### **VOLUNTEER / OTHER**

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- Eagle Scout and current Assistant Scoutmaster, Boy Scouts of America
- Tenor Singer, Holy Spirit Church Choir.
- Former Chief Timer, Referee, and Database Manager, Burke Station Destroyers Swim Team, NVSL