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**Qualifications**

Innovative computer scientist with experience and interest in network programming and support. Background includes nearly ten years of professional programming and support services for the University of Delaware as well as two years as a student worker. Proven system administration skills managing a large virtual machine infrastructure as well as development skills programming key web-based UIs and in-depth management scripts using third-party APIs. Some experience with network construction and analysis while developing a new hub-and-spoke VPN design for offsite buildings.

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**Education**

University of Delaware, Newark, Delaware

Bachelor of Science in Computer and Information Sciences (CISC), graduated June 2007  
Concentration: Network Optimization GPA in concentration: 3.0/4.0

Charter School of Wilmington, Wilmington, Delaware

Graduated with honors, May 2002

Senior Thesis: Fast Fourier Transforms (FFTs) and Audio Engineering, April 2002

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**Professional Experience**

University of Delaware Network & Systems Services October 2008 – present  
Systems Programmer Level III

- *Administration of Linux, Solaris and ESXi hosts, both virtual and hardware*
- *Administration of Juniper, Cisco and F5 network hardware*
- *Administration of NetApp, Sun Microsystems and Dell EqualLogic disk arrays*
- *Perl and shell scripting, C programming*
- *PostgreSQL, MySQL, MariaDB and Oracle SQL database administration*

University of Delaware Office of Development and Alumni Relations June 2007 – October 2008  
Campus Information Technology Associate (CITA) Level II

- *Administration of Apache servers, MySQL databases and various other services*
  - *Oracle PL/SQL scripting*
  - *Provided first-level technical support to a group of approximately sixty users*
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**Notable Projects**

- Constructed and maintained two VMware virtual machine clusters that hosted over 200 virtual machines for the university, including critical systems for the Department of Public Safety and Microsoft Active Directory and Exchange for over two thousand users.
- Compiled and maintained a Shibboleth Identity Provider SSO service that processes over 3000 logins a week.
- Programmed a complex web-based interface for better tracking of systems and other hardware in the NSS datacenter.

*See other side for detailed experience with hardware, software etc.*

### **Server/Disk Hardware**

- Dell servers and disk arrays, most PowerEdge, EqualLogic and desktop models
- Sun Microsystems/Oracle servers, terminals, storage arrays and tape drives
- Various PowerPC and MIPS-based systems
- NetApp 3170 and 3250

### **Network Hardware**

- Juniper routers, switches and security devices (primarily SRX series)
- Cisco routers, switches and console management servers
- Linksys and Netgear routers and switches
- Aruba wireless controllers and access points

### **Network Communication Types**

- 10/100/1000BASE-T
- Various forms of 10GbE (fiber and SFP+ Direct-Attach Copper)
- Fiber optic
- WiFi 802.11 a/b/g/n

### **Operating Systems**

- Linux 2.2.x – 3.x
- Oracle Solaris 8 – 10
- Windows 3.1, 95, 98, NT, 2000/XP, 2003, 2008 and 2012 Server
- Macintosh Classic OS 6.1 – 9, OS X
- Cisco IOS
- Juniper JunOS
- Some experience w/ NetBSD, FreeBSD, IRIX and HP-UX

### **Programming and Scripting Languages**

- Perl, Python, C, C++, Java, HTML, Javascript, PHP, Lisp/Scheme, SPARC assembly, x86 assembly, Bash shell, CLIPS/COOL

### **APIs and Toolkits**

- GTK+, Microsoft Visual C++, MPI/OpenMP, Perl/Tk, NPTL, CGI, VMware Perl SDK

### **Software**

- Apache httpd, Apache Tomcat, Samba, OpenLDAP, Shibboleth, SSH, SFTP, rsync, SVN, rcs, SmartFTP, TELNET, Vim, PostgreSQL, MySQL, Oracle PL/SQL, sqlplus and SQL\*Loader, Ethereal/Wireshark, iPerf, NDT, LibreOffice, Microsoft Office, Mozilla Firefox, Internet Explorer, Google Chrome, regedit, ResEdit, tcpdump, ejabberd

### **Additional Experience**

- Analog and digital electronics repair
- Soldering, de-soldering etc.
- Oscilloscopes, logic analyzers, signal generators and multimeters