

## Andrew Fugier

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### CONTACT INFORMATION

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### SKILLS

#### **Programming Languages**

- Professional: C, C#, other .NET platforms (ASP, VB, etc.)
- Academic: Java, Python, C++, Perl, Ruby, PHP, Scheme
- Ability to quickly learn new languages, techniques

#### **Source Control Experience**

- Git, SVN, Microsoft Team Foundation Server
- CVS: Academic usage

#### **University Elective Coursework**

- Parallel Computation: Use of compute cluster / MPI / Infiniband / MapReduce
- Mobile Device Programming: Writing native apps for the Android platform
- Advanced Web Programming in Java: More in-depth look at Java
- Internet Studies Internship: Wrote a web API using Java / MySQL / JSON

#### **Microsoft Certified Professional, Microsoft Certified Technology Specialist**

- Certified Since 2005 - MCP# 3380893
- Validation: Transcript ID 1135400 | Access Code 17ELN89P

#### **IT Experience: 15+ years Windows experience**

- Desktop: Every major version from NT 4.0 through Windows 10
- Server: Every major version from NT 4.0 through Server 2016
- Hyper V virtualization services
- Exchange Server 2003 through recent (SBS and Standard Versions)
- SQL Server 2000 through recent
- Active Directory & Group Policy management experience

#### **IT Experience: 9+ years Linux / FreeBSD experience**

- ZFS, NFS, SMB, CIFS, DHCP, PXE, TFTP services
- Use of MySQL, PHP, Apache in production environments
- Support of 200+ Linux workstations, at university - 2010 through 2014
- FreeBSD based systems, such as Isilon, FreeNAS, pfSense, etc.

#### **Other interests I have and interesting things I've worked with**

- Small ARM based systems, such as the Raspberry Pi, BeagleBone
- Microcontroller systems, mainly Atmel 328 series (Arduino based)
- ZigBee / XBee wireless systems / wireless serial communications
- Projects involving electronics, sensors, and data computation
- Various 3D printing and CNC wood working machines

#### **Working to provide solutions in technology for the past 20 years**

### EDUCATION

#### **Western Washington University**, Bellingham, WA

B.S., Computer Science, August 2014

- Elective coursework around Unix, parallel computation, and mobile device development
- Certificate from the [Internet Studies Center](#) (Web Programmer Track)

#### **North Seattle Community College**, Seattle, WA

A.A., General Studies, August 2010

- Achieved Dean's List status multiple quarters

## EXPERIENCE

### **Isilon Systems part of Dell | EMC, Seattle, WA**

*Principal Software Quality Engineer, Senior Software Quality Engineer* **2014 - Present**

- Determine cause of software failures in the field, specifically in these areas
  - AIMA (Authentication, Identity Management, and Access control)
  - File Protocols - specifically SMB, CIFS, NFS, NFSv4, FTP
  - Networking components including Ethernet and Infiniband stacks
- Analysis of program cores using GDB and similar tools
- Determining protocol adherence based on network packet captures

### **Western Washington University, Bellingham, WA**

*Systems Administrator, Computer Science Department* **2012 - 2014**

- Assisted the Senior System Analyst/Programmer in tasks and projects
- Experience with FreeBSD, especially with ZFS, NFS, and Samba
- Supported a large user base (2000+) across Windows and Unix / Linux systems
- Installed & assisted the configuration of a high performance computing cluster
  - Experience with Rocks cluster management software (Linux Based)
  - Experience with IPMI Management Interfaces
  - Experience with Infiniband networking
- Cisco networking equipment exposure
  - Designed, implemented, and configured 20Gb/s backbone for the department, with over 400 individual gigabit service ports.
  - Experience in cross integrating technology between Cisco and 3rd party equipment, in particular, Netgear and HP. (LLDP, Link Aggregation, etc.)
- Installed and configured large storage systems ( 50TB usable)
  - 24+ Disk systems, multi-level ZFS, 200+ simultaneous connections
  - Backed by FreeBSD and ZFS, available through NFS and Samba

### **Value Logic, Vista, CA**

*Software Engineer* (2010 - Present: Part-time contract) **2008 - 2014**

- Developed and maintained internal ticketing software (Service Ticket Plus)
  - Software developed in C#, with MySQL, MSSQL, SQLite databases used
  - WinForms for user interfaces, classes for business logic
- Extended exposure to Team Foundation Server
- Exposure to third-party library and driver usage, vendor specific hardware

### **Value Logic, Vista, CA**

*IT Administrator* **2003 - 2009**

Job responsibilities have changed greatly over time; basic list (In-Office and On-Site):

- Day to day maintenance of approximately twenty small business networks
- Manage a small team of system engineers, keeping idle time to a minimum
- Responsible for server configurations, builds, RAID mgt., O/S loads
- Responsible for deployment of Active Directory, Exchange, DNS, DHCP, etc.
- Responsible for configuration of SonicWALL brand firewalls / routers
- Responsible for WAN link site-to-site setup and optimizations in organizations
- First responder for system wide downtime / failures - 24 hour on-call
- Implement special customer requests, for example, POS systems, Wi-Fi barcode scanners, distributed wireless systems, custom programming, reports, etc.