Andrew Fugier

CONTACT
INFORMATION

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EDUCATION

B.S., Computer Science **Western Washington University**
A.A., General Studies **North Seattle Community College**

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
  - Network stack (drivers, transport, protocol, etc.)
  - Infiniband networks as used for inner-cluster communications
- Analysis of program cores using GDB, DTrace, and similar tools
- Determine protocol adherence based on network packet captures
- Deep understanding of mutexes, threads, processes within the C language.
- Extensive experience with large clustered & distributed systems.
- Technically mentored other team members; provided training to other teams

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 **2008 - 2014**

- Developed and maintained internal ticketing software (Service Ticket Plus)
- Software development in C#, with MySQL, MSSQL, SQLite databases used
- Exposure to thrid-party library and driver usage, vendor specific hardware

IT Administrator, Senior IT Administrator **2003 - 2009**

- Day to day maintenance of approximately twenty small business networks
- Deployment of Active Directory, Exchange, DNS, DHCP, DFS, etc.
- Configuration of SonicWALL and Cisco brand firewalls / routers
- Implement requests, eg: POS systems, Wi-Fi barcode scanners, etc.

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 and techniques

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

University Elective Course-work
- Parallel Computation: Use of compute cluster / MPI / Infniband / 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 though 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