

# Aaron Longfield

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## TECHNICAL SUMMARY

### Languages:

- C#, Java, SQL, C/C++, BASH shell script, Perl, Python

### Operating Environments:

- Windows 2003 Server, 2008 Server, 2012 Server
- CentOS/RHEL 4-6
- Amazon AWS

### Technologies:

- Data backup and archival policy and implementation
- VMware vSphere test/prod environment setup and admin
- Host and network security, hardening, IPS/IDS
- AWS Lambda, Kinesis, EC2 development
- Hortonworks HDP (Hadoop) admin and development
- Microsoft SQL Server admin and development

## EXPERIENCE *Lead DevOps Engineer* 2016 – Present

Vistaprint – Business Intelligence, Waltham, MA

- Management of MS SQL Servers
- ETL and schema development for data warehousing
- Data streaming dev on Hadoop (Storm and HBase), AWS Lambda, AWS Kinesis, and various EC2 based instances
- Management of Hortonworks HDP Hadoop environment
- Development of NiFi data streams and platform implementation

## *Lead Operations Support Engineer* 2012 - 2016

Vistaprint Corporate Solutions, Waltham, MA

Vistaprint, Lexington, MA

- Debug and patch development for production issues
- Worked directly with product owners and external partners during any production incidents and outage causing maintenance
- Ongoing development in support of existing external partners
- Work with other dev teams in the organization to stabilize production incidents
- Develop extensions to support integration with third party manufacturing partners

## *Professional Tutor* 2010 - 2012

Fitchburg State University, Fitchburg, MA

- Learning assistance to students in the Computer Science program
- Conduct assessment and targeted learning programs
- Provide continuous evaluation of student progress

## LiveWire Mobile, Littleton, MA

- Operation of a 24x7 high availability environment that covers multiple customers and time zones
- MySQL database administration, including query optimization, engine optimization, repair, and database design
- Provide support for code enhancements, debugging, and new implementation of Perl and Java server applications, deployed under Apache httpd/mod\_perl, WebLogic and Apache Tomcat
- Design and implementation of new tools to enable better workflow of large-scale media import, conversion, and end-use publishing
- Deployment management for changes to production environment
- VMware migration, deployment, and performance optimization, including extensive virtualization of existing physical environments
- Development and support of new and existing data reporting platforms; data mining of subscriber history information
- Linux platform hardening and acceptance testing

*Release Engineer*

2008

## LiveWire Mobile, Littleton, MA

## NMS Communications, Framingham, MA

- Responsible for build, release, and source control systems on RHEL and Solaris
- Design and development of new Python based build and release platform, allowing for much finer control of build and more rapid development processes
- Development of build and install automation for all products, including Sprint Music Store, MySQL, and WebLogic platform and applications, drastically reducing upgrade time requirements and eliminating manual procedures
- Implementation of new application platform and data center deployment tools, allowing for a consistent platform across test and production deployments
- Sustaining engineering for Sprint Music Store and Bell Mobility music store
- Development of new shell scripts to support product installation and config
- Documentation of platform, systems, data escrow, and applications
- Product investigation, documentation, and technology transfer through corporate merger

*MIS Director*

2004 - 2008

## Town of Auburn, Auburn, MA

- Technology planning for the Town MIS and other departments
- Responsible for technology operating and capital budgets
- Development and admin of systems (UNIX and Windows), networks, and platform integration
- Administration of Oracle based assessing platform
- Maintenance of municipal area network; design and implementation of WAN and VPN
- Operation of Cisco based network infrastructure
- Design and implementation of LAMP based CMS for public information management
- Operation and maintenance of municipal financial system (MUNIS)
- Administration of telecommunications equipment
- Cost analysis and reduction, including 50% decrease in telecommunication expenses for landline and cellular handsets and drastic reduction in software licensing costs
- Implementation of VMware virtualized production environments

- Design and initial implementation of new GIS platform
- Backup and data archive policy, design, and system implementation

*Independent Consultant*  
Milford, MA

2003 - 2004

- Development of framework for web application templates using PHP and Apache on CentOS platform
- Web design using custom developed framework
- System and network administration
- Security hardening and infrastructure maintenance
- Failure recovery of servers and storage systems

*Infrastructure Specialist III*

2003

Fleet Libris Information Solutions, Kingston, NY

- Administration of government banking HP-UX systems for NY tax infrastructure
- Security auditing and advisory response
- Supporting users of HP-UX servers
- Evaluation and test of new software releases
- Staging of new builds from development to test and production environment

*Systems Engineer*

2001 - 2002

adAlive.com, Waltham, MA

- Design and implementation of host security on Linux servers and embedded systems
- Server and network maintenance and administration
- Server and embedded systems development with C/C++ and Perl
- Sustaining engineering of embedded and server based products
- Development on Linux IrDA kernel stack and wireless network drivers
- Embedded system design using heavily customized RedHat Linux platform

*Systems Administrator*

2000 - 2001

Emperative, Waltham, MA

- Server maintenance and administration (Linux, Solaris, Windows)
- Network admin and security of Cisco firewalls and VPN
- Support and consulting for sales engineering and development teams
- Building of telecom labs for demonstration and network simulation
- Coordination of network setup and internet connectivity during building relocation, as well as responsibility for reinstallation of network equipment and servers

*Assistant Systems Administrator*

1999 - 2000

WPI Electrical and Computer Engineering Dept, Worcester, MA

- Support of students, faculty, and research labs
- Network and host management software development (C++, BASH shell)
- Design and development of machine cloning system
- Building and maintenance of OS and application images
- Administration of highly heterogeneous OS environment (Windows, Linux, HP-UX, Solaris, DEC OSF/1, Compaq Tru64, ULTRIX) with Linux and DEC OSF/1 servers

## **EDUCATION**

*Computer Science*

*Minors: Mathematics, Biology*

Fitchburg State University, Fitchburg, MA

2009 - 2012

- Java application design and implementation
- Statistics
- Digital logic
- Cloud computing
- Android development
- Algorithm design and optimization

*Electrical Engineering*

Worcester Polytechnic Institute, Worcester, MA

1997 - 2000

- Advanced operating system concepts and design
- Computer network technology and software design
- Structured and Object Oriented programming
- Computer processor organization and x86 assembly language
- Software engineering and team management