

# Joe Johnston

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*I am a software engineer with two decades of development experience seeking to leading small teams in rapidly developing new products that are Enterprise-ready and cost-effective with open source tools.*

## Skills

### Languages

- Java
- Javascript
- Perl
- PHP
- Python
- Ruby
- UNIX Shell

### Platforms

- Amazon Web Services
- Bootstrap/Backbone/jQuery
- Django/Pygame
- Mojolicious
- MySQL/MS SQL/Oracle
- Ruby on Rails
- Spring/Hibernate

## Education

- University of Massachusetts Boston: BA in Computer Science

## Employment History

**Principal Developer** MathWorks Oct 2015 - present

- Creating a central test automation and reporting tool for quality engineers
- Brought modern web development methods and tools to improve existing programs
- Create and maintain automation tools for developers to navigate Perforce

**Senior Developer** CareerArc Group Oct 2012 - Sep 2015

- Architect of two application transitions to Amazon Web Services using EC2/RDS
- Configured MySQL replication for high availability
- Build SAML integration into product which closed new sales in the college market
- Implemented push notification using Twitter API
- Bifurcated code base to separate legacy application from current application
- Automated libreoffice to generate superior resume and report documents
- Replatformed application to Ruby on Rails 4

**Senior Developer** RR Donnelley/Helium Nov 2011 - Sep 2012

- Part of team creating NG content generation platform in java using Spring/Hibernate/jQuery/Kendo
- Designed and implemented custom HTML generation system to push pages to AWS CloudSearch and S3

- Designed and implemented a subscribe/publish content delivery system using Atom feeds that integrates two core components of NG and is also used by major clients
- Delivered rapid prototype of on-demand content that engaged a major US retailer
- Mentored QA team in learning Perl
- Helped defined best practice coding standards for engineering group
- Created web tool that greatly simplified QA testing of CMS

**Principal Consultant**                      ATG/Oracle Corporation                      Mar 2010 – May 2011

- Provided internal technical training on new releases
- Adjusted custom XML web service for load-balanced environment
- Gap analysis reporting for hardware disaster recovery
- Managed client projects, requirements and deployment
- Used Python/Django to integrate ATG Click2Chat with IntelliResponse API
- Configured Click2Chat accounts to use ATG Salesforce Integration
- Helped operationalize new product features for implementation team

**Senior Software Engineer**                      Leostream Corporation                      Jul 2006 – Mar 2009

- Developed Citrix Application support for the core Connection Broker product that closed a strategic sale with a major US financial service company
- Developed Sun Ray support for core Connection Broker product that closed strategic sales with two major US financial service companies and enabled a partnership with Sun Microsystems
- Developed a web-based Voucher accounting system to support partnership with IBM
- Developed Java client application for Linux/Mac OS X platforms that expanded Connection Broker market
- Transitioned corporate web site to PHP-based system
- Mentored newly hired developers in core product development
- Expanded and implemented core product API
- Integrated core product with many third-party APIs (VMWare VI3, Virtuallron, Xen) to support ongoing business development projects

**Software Consultant**                      Taskboy.com                      Oct. 2001 – Jul 2006

*Leostream Corporation*

- Founding member of the company
- Co-developed Leostream Host Agent, which proxied control of VMware ESX 2 platform for Controller and P2V Wizard
- Developed Leostream Host Proxy, a virtual appliance to control ESX 3 for Controller and P2V Wizard
- Built core IT systems for sales and marketing, including product trial mechanism and integrated CRM support with Sugar
- Built Leostream Virtual Appliance Installer, a Java-based windows app
- Ported Virtual Controller (LAMP app) to Windows from Linux to support business development opportunities
- Provided on-site training and deployment assistance for largest clients

*CS Information Technologies*

- Served as chief architect and technical lead for ground-up rewrite of core Software as a Service application using Apache, mod\_perl, Template toolkit and MySQL

- Determined application sizing requirements for application to ensure High Availability
- Led code reviews with junior developers
- Built Web crawling tool to collect data for core product that reduced data royalties

#### *O'Reilly Media*

- Designed an HTML layout for intranet search engine
- Wrote technical documentation for internal mod\_perl template system comprising more than 100 Perl modules and templates

**Senior Software Engineer**                      O'Reilly and Associates                      Apr 2000 - Sep 2001

- Designed and implemented a Digital Asset Management system for book content reducing time spent by production dept. looking for critical resources
- Provided XML-RPC interface in ASP for Safari, O'Reilly's online book initiative
- Facilitated the integration of various databases into a company-wide data warehouse as part of a comprehensive IT restructuring
- Provide technical reviews for over a dozen titles

**Teacher**                      Northeastern University                      Aug 2000 - Dec 2000

Designed and taught an introductory course in programming with Perl which targeted Bioinformatics certificate candidates

**Senior Software Engineer**                      CS Information Technologies                      Nov 1997 - Apr 2000

- Implemented application features to core Software as a Service product that closed new business
- Maintained five core Software as a Service sites
- Implemented a machine monitoring system
- Designed and implemented an Object Oriented Perl system aggregation data for core product

**Lab Consultant**                      Univ. of Massachusetts Boston                      Sep 1995 - Nov 1997

- Supported industry standard office applications
- Assisted with workstation maintenance

## Publications

- **Programming Web Services with XML-RPC**; O'Reilly Media
- **Unix Power Tools**, 3<sup>rd</sup> ed; O'Reilly Media
- **The Best of the TPJ: Computer Science & Perl Programming**; O'Reilly Media
- **The Best of the TPJ: Web, Graphics & Perl/Tk**; O'Reilly Media