

Joe Johnston

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I am a software engineer with over two decades of web development experience looking to partner with a company that is trying to make the world a better place.

Platforms

Web:	Mojolicious • CGI::Application • Bootstrap JS • jQuery
Datstores:	MySQL • Other RDBMS • DBIx::Class • ODBC
Cloud:	Amazon Web Services • Linode • Traditional hosting

Languages (Ordered by Facility)

Perl • JavaScript • Python • PHP • Java • Exposure to many others

Education

University of Massachusetts Boston: BA in Computer Science, 1995-1998; GPA: 3.2

Recent Professional Accomplishments

Principal Developer/Team Leader MathWorks Oct 2015 - present

- Led the development of a new internal tool tracked and managed problematic tests run by hundreds of developers across more than 100,000 tests
- Initiated and led cross-functional team meetings to improve exploratory testing tooling among quality engineer teams leading to more efficient test results
- Designed and built a web platform that hosts over 1,000 job runners across regional offices around the world
- Wrote and delivered instructional and promotional presentations to the department-wide (~200 people) audiences as well as individual groups.
- Designed and implemented a database-backed, web differencing engine (Delta Reports) to help Quality Engineers find regressions faster -- system has over 150M records.
- Designed and implemented a modern MVC web platform that improved the delivery time of complex web applications on which several applications were built
- Designed and implemented an "Active Record" like Object Relational Mapper that simplified internal web application development and managed schema changes.
- Built a web application that added debug symbols to application crash reports across Linux, Windows, and Mac OS X platforms, which was used through the organization.
- Built email support triage web application that was used weekly by our team to ensure customer issues are addressed in a timely fashion.

Career Highlights

Senior Developer CareerArc Group Oct 2012 - Sep 2015

- Migrated two web application 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
- Replatformed application to Ruby on Rails 4

Senior Developer RR Donnelley/Helium Nov 2011 - Sep 2012

- 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
- Mentored QA team in learning Perl
- Helped defined best practice coding standards for engineering group

Senior Software Engineer Leostream Corporation Oct. 2001 – Mar 2009

- Founding member of the company
- Developed Leostream Host Proxy, a virtual appliance to control ESX 3 for Controller and P2V Wizard
- 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
- Ported Virtual Controller (LAMP app) to Windows from Linux
- Provided on-site training and deployment assistance for largest clients

Publications

- **Programming Web Services with XML-RPC**; O'Reilly Media
- **Unix Power Tools**, 3rd 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

Hobby Projects

- Raspberry Pi cluster (7 nodes) for SETI@home (top 25% contributor)
- Home networking (WiFi, Powerline ethernet, etc.)
- Setup and administration of Linode virtual server for taskboy.com