Jeffrey Johnson

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Education

Illinois Institute of Technology   Chicago, IL [August 2009 – May 2013]
B.S. Electrical Engineering,   Magna Cum Laude
Computer Engineering   3.8/4.0

Employment

Microsoft – Software Engineer   Redmond, WA [September 2014 – Present]
- Shipped the new charting engine in Office 2016 with a focus on cross platform UI.
- Planned and executed interface refactoring for the OfficeArt platform to increase developer productivity and work towards better componentization.
- Investigated and solved long-standing bugs in areas such as UI and file persistence.
- Built support for collaboration into OfficeArt content model to enable real time editing in Office Desktop and Mobile.
- Developing cross-platform accessibility solutions to empower disabled users to consume and create graphical content.

Microsoft – Program Manager   Redmond, WA [August 2013 – September 2014]
- Owned and designed new features for charting in Office 2016 including UI and usage telemetry collection. Performed user research to validate and improve features.
- Worked closely with engineering to ship high impacting security vulnerabilities on strict disclosure deadlines requiring co-ordination across multiple product groups.
- Established a cross-team vision for web charting as a service powered by a server-side layout engine to enable interactive experiences through a client-side JavaScript player and API.

ClassBug.com – Co-Founder/CTO, Technical Advisor   Chicago, IL [July 2012 – Present]
- ClassBug gives wellness institutions an e-Commerce and student management solution to enable businesses to focus on their passion while letting software take care of the administrative work. It has reliably processed over $1M in transactions serving studios across the country.
- Designed the application to be cloud agnostic and continuously deployed through automated validation, Capistrano, and a focus on horizontal scalability.
- Managed and mentored technical intern as well as briefly transitioned CTO role to new teammate without former Ruby or Rails experience.
- Built out the tooling for a one-click, platform independent development environment using Vagrant and Ansible capable of running on Docker, Hyper-V, and VirtualBox.

kCura Corporation – Development Intern   Chicago, IL [June 2010 – September 2010]
- Integrated email thread representation of ligation collateral into document review tool.
- Led design and implementation of Active-X and JavaScript based hotkey feature that bridged the web based review tool with the Win32 API.

Research

Understanding the Costs of Many-Task Computing Workloads on Intel Xeon Phi Coprocessors
- Built and benchmarked conceptual client-server framework for offloading work to Xeon Phi through raw SCIF sockets, OpenMP, and POSIX threads.
- Demonstrated performance benefits over OpenMP when using raw sockets to offload work.
- Presented at GCASR 2013, covered by news publication HPCWire in October 2013

Open Source

progressive_render – Ruby on Rails Gem
- Allows developers to defer loading sections of a web page until the rest of the page has rendered with minimal code change to increase page responsiveness.

Technical Expertise

Programing Languages [by Experience]
- C++, Ruby, JavaScript, C#
- 68k/MIPS Assembly

Other Technologies
- EC2, S3, CloudFront, Heroku
- Ruby On Rails, jQuery
- RSpec, Capybara

Databases/Storage
- PostgreSQL, Memcached

Administration/DevOps
- HAProxy, Nginx, Capistrano
- Vagrant, Ansible