

# Jeffrey Johnson

Seattle, WA | (330) 304 - 6427 | [johnsonjeff@gmail.com](mailto:johnsonjeff@gmail.com) | [johnsonjeff.com](http://johnsonjeff.com)

Education	<b>Illinois Institute of Technology</b> B.S. Electrical Engineering, Computer Engineering	Chicago, IL [August 2009 – May 2013] Magna Cum Laude 3.8/4.0
Employment	<b>Microsoft Corporation – Program Manager</b> Redmond, WA [August 2013 – Present] <ul style="list-style-type: none"><li>• Worked cross-team to establish vision for web charting solution enabling server-side layout engine to provide Direct2D rendered images and enable interactive experiences through client-side JavaScript player</li><li>• Integrated telemetry platform into native software to instrument and analyze usage, errors, and performance in production with proprietary MapReduce language</li><li>• Developed customer collateral collection and analysis solution through a multi-threaded Bing API scraping tool and set of analysis queries to build reports on customer feature usage</li></ul> <b>ClassBug.com – CoFounder/CTO, Technical Advisor</b> Chicago, IL [July 2012 – Present] <ul style="list-style-type: none"><li>• ClassBug gives businesses a web presence, public and in-store payment processing, student management while providing financial reports synced with their QuickBooks. It has reliably processed over \$300k in transactions serving studios across the country</li><li>• Rapidly developed Ruby on Rails based SaaS “leisure class” CRM/sales application with desktop-like performance using Memcached featuring a 60% automated test coverage with RSpec</li><li>• Technical achievements include architecture allowing for live horizontal scaling; Domain Specific Language to define reports of user data; Ruby friendly Enum support for Rails; Dynamic fields with validation and user defined constraints; Pluggable payment processors</li><li>• Managed and trained technical intern as well as transitioned CTO roles to new teammates without former Ruby or Rails experience</li></ul> <b>Illinois Institute of Technology – Research Assistant</b> Chicago, IL [August 2011 – May 2012] <ul style="list-style-type: none"><li>• Developed early stages of signal acquisition and processing system based on CompactRIO FPGA hardware for metallurgy manufacturing application</li></ul> <b>Intel Corporation – Services Integration IT Intern</b> Chandler, AZ [May 2011 – August 2011] <ul style="list-style-type: none"><li>• Developed and assisted in delivering developer training course for Microsoft SCOM to decrease training periods and lower miscommunications.</li><li>• Created organization contract between IT and developer organization to affirm SLAs, decrease issues and delays caused by misunderstandings of responsibilities.</li><li>• Demonstrated and designed proof of concept to aggregated BES Web Reports, necessary for administration of factory machines, to lower overhead and free administrative resources</li></ul> <b>kCura Corporation – Development Intern</b> Chicago, IL [June 2010 – September 2010] <ul style="list-style-type: none"><li>• Integrated email thread representation of litigation collateral into document review tool</li><li>• Led design and implementation of Active-X based Hotkey feature within application, one of the oldest customer requested features</li></ul> <b>Illinois Institute of Technology – Teaching Assistant</b> Chicago, IL [January 2010 – May 2011] <ul style="list-style-type: none"><li>• Interacted individually with students to ensure their understanding of course material through open office hours and weekly assignments for introductory Computer Science courses</li></ul>	
Research	<b>Understanding the Costs of Many-Task Computing Workloads on Intel Xeon Phi Coprocessors</b> <ul style="list-style-type: none"><li>• Built and benchmarked conceptual client-server framework for offloading work to Xeon Phi through raw SCIF sockets, OpenMP, and POSIX threads</li><li>• Demonstrated performance benefits over OpenMP when using raw sockets to offload work</li><li>• Presented at GCASR 2013, covered by news publication HPCWire in October 2013</li></ul>	
Technical Expertise	<b>Programing Languages [by Experience]</b> <ul style="list-style-type: none"><li>• HTML, JavaScript, CoffeeScript</li><li>• Ruby, Java, C</li><li>• C++, MIPS/68k Assembly, Verilog</li></ul> <b>Other Technologies</b> <ul style="list-style-type: none"><li>• EC2, S3, CloudFront, Heroku</li><li>• Ruby On Rails, jQuery</li><li>• RSpec, Capybara</li></ul>	<b>Databases</b> <ul style="list-style-type: none"><li>• PostgreSQL, Memcached, MS SQL</li></ul> <b>Administration</b> <ul style="list-style-type: none"><li>• HAProxy, Nginx, Capistrano</li><li>• Active Directory</li><li>• Windows Deployment Services</li></ul>