

Jeffrey Johnson

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Education	Illinois Institute of Technology B.S. Electrical Engineering, Computer Engineering	Chicago, IL [August 2009 – May 2013] Magna Cum Laude 3.8/4.0
Employment	Microsoft Corporation – Program Manager Redmond, WA [August 2013 – Present] <ul style="list-style-type: none">• 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• Integrated telemetry platform into native software to instrument and analyze usage, errors, and performance in production with proprietary MapReduce language• 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 ClassBug.com – CoFounder/CTO, Technical Advisor Chicago, IL [July 2012 – Present] <ul style="list-style-type: none">• 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• Developed Ruby on Rails based service using partial updates and Memcached to achieve an average 150ms request response time backed by a 60% automated test coverage with RSpec• Technical achievements include architecture allowing for live horizontal scaling; Domain Specific Language to define reports of user data; Ruby friendly Enum-like support for Rails; Dynamic fields with validation and user defined constraints; Pluggable payment processors• Managed and trained technical intern as well as transitioned CTO roles to new teammates without former Ruby or Rails experience Illinois Institute of Technology – Research Assistant Chicago, IL [August 2011 – May 2012] <ul style="list-style-type: none">• Developed early stages of signal acquisition and processing system based on CompactRIO FPGA hardware for metallurgy manufacturing application Intel Corporation – Services Integration IT Intern Chandler, AZ [May 2011 – August 2011] <ul style="list-style-type: none">• Developed and assisted in delivering developer training course for Microsoft SCOM to decrease training periods and lower miscommunications.• Created organization contract between IT and developer organization to affirm SLAs, decrease issues and delays caused by misunderstandings of responsibilities.• Demonstrated and designed proof of concept to aggregated BES Web Reports, necessary for administration of factory machines, to lower overhead and free administrative resources kCura Corporation – Development Intern Chicago, IL [June 2010 – September 2010] <ul style="list-style-type: none">• Integrated email thread representation of litigation collateral into document review tool• Led design and implementation of Active-X based Hotkey feature within application, one of the oldest customer requested features Illinois Institute of Technology – Teaching Assistant Chicago, IL [January 2010 – May 2011] <ul style="list-style-type: none">• Interacted individually with students to ensure their understanding of course material through open office hours and weekly assignments for introductory Computer Science courses	
Research	Understanding the Costs of Many-Task Computing Workloads on Intel Xeon Phi Coprocessors <ul style="list-style-type: none">• 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	
Technical Expertise	Programing Languages [by Experience] <ul style="list-style-type: none">• HTML, JavaScript, CoffeeScript• Ruby, Java, C• C++, MIPS/68k Assembly, Verilog Other Technologies <ul style="list-style-type: none">• EC2, S3, CloudFront, Heroku• Ruby On Rails, jQuery• RSpec, Capybara	Databases <ul style="list-style-type: none">• PostgreSQL, Memcached, MS SQL Administration <ul style="list-style-type: none">• HAProxy, Nginx, Capistrano• Active Directory• Windows Deployment Services