

Craig M. Buchek

Summary

- Software developer with 20 years of IT experience. Experienced Ruby on Rails web developer. Strong GNU/Linux system administration skills. Strong knowledge of web technologies and network protocols.

Highlights

- Built web sites in Ruby on Rails for several different companies.
- Mentored developers in Agile methodologies and Java programming, in order to bring developer jobs back to the USA.
- Implemented method of automatically configuring cable modems for a large Internet Service Provider, with approximately 20,000 cable modem customers per site.
- Led and managed a small team to develop GNU/Linux training manuals.
- Very active member of local Ruby and GNU/Linux communities.
- Co-host of This Agile Life podcast.

Technical Expertise

- **Programming languages:** Ruby, JavaScript, UNIX shell, Python, Java, PHP, C, C++
- **Web development:** HTML/CSS, JavaScript/AJAX, Ruby on Rails, jQuery, XML/XSLT
- **Development practices:** Test-Driven Development (TDD), Behavior-Driven Development (BDD), pair programming, Continuous Integration (CI), Agile methodologies, source control
- **Development tools:** Git, Subversion, RSpec, Capybara, Cucumber, Selenium, Capistrano
- **Operating systems:** GNU/Linux (Debian, Ubuntu, Red Hat), Mac OS X, Solaris, Windows
- **Network services:** Web servers (Apache, Nginx), Web proxies (Squid), Email (Postfix), file services (Windows, Novell, Samba, NFS), DNS (BIND), LDAP (OpenLDAP)
- **Technical communication:** Written procedures, live presentations, training, development of training materials, technical writing, technical editing

Training and Conferences

- Pragmatic Programmers Advanced Rails Training - 2007
- RailsConf - 2007, 2008, 2010, 2014
- Midwest Ruby Conference - 2011
- Windy City Rails - 2011
- Strange Loop - 2011, 2012, 2013
 - Hadoop training - 2012
- OSCON (Open Source Conference) - 2003

Professional Experience

Sr. Software Developer at Liaison International (2013.09 - present)

- Worked to improve a large complex Ruby on Rails application.
 - Increased test coverage.
 - Reduced technical debt.
 - Rearchitected several components.

- Helped transform a team to employ Agile practices to increase performance.
 - Implemented retrospectives, pair programming, TDD, refactoring, continuous integration, code reviews.
 - Mentored them to improve their Ruby skills.

Web Developer at BoochTek, LLC (2006.12 - present)

- Designed and implemented web applications for several companies.
 - Social networking hub, integrated with other social networking sites. (Rails)
 - Management system to track tutoring sessions. (Rails)
 - Conversion of Access application for aggregating feedback forms. (Rails)
 - Online sales quote system. (Rails)
 - Web forms for non-profit companies. (PHP)
- Provided consulting services to companies implementing and upgrading web sites.
- Provided bug fixes and feature updates to existing web applications.
 - Reduced code size and complexity to simplify on-going site maintenance.
- Developed bug tracking and feature request procedures and sites for customers.
- Developed source code revision control and deployment best practices to easily add features to production sites, with ability to back out changes quickly if necessary.

Cloud Engineer at Express Scripts (2012.10 - 2013.09)

- Worked on a team building an internal cloud infrastructure.
 - Automated deployment of Java applications to cloud servers.
- Developed web interface to view information about web applications deployed to the cloud. (Python)
- Helped existing projects modify their practices to deploy their applications to the cloud.
- Acted as liaison to coordinate with other groups to push the company toward the strategic goal of utilizing the cloud infrastructure.

Sr. Software Developer at Asynchrony Solutions (2010.10 - 2012.10)

- Designed, implemented, and deployed large-scale web applications for several companies.
 - Social networking and data gathering site for patients with type 1 diabetes. (Rails)
 - * Provisioned load-balanced servers for 200,000 concurrent users.
 - * Assisted with system administration and configuration management tasks.
 - Asset management system for a large company (12 million digital assets). (Java)
 - Developed, maintained, and documented APIs for several mobile client applications. (Rails)
- Practiced Agile/Lean methodologies: pair programming, Kanban, acceptance testing, TDD, BDD, refactoring, continuous integration, retrospectives.
- Traveled to and consulted at a large corporation (7000 employees) to teach their developers how to implement Agile practices.
 - Implemented pair programming, Kanban, TDD, refactoring, continuous integration.
 - Mentored them to improve their Java skills.
 - Installed and used Cucumber-JVM, Selenium, Jenkins, JUnit, Eclipse.
- Adopted architectural practices more amenable to large-scale use with Rails.
- Utilized cutting-edge technologies with Ruby on Rails:

- MongoDB/Mongoid, ElasticSearch/Tire, Devise, HAML, SASS, Spine, CoffeeScript, Capybara, Cucumber, RSpec, Jasmine

System Administrator at Savvis (2010.04 - 2010.10)

- Served as primary technical contact for top managed web hosting customers.
- Provided 3rd-level support for GNU/Linux and UNIX web hosting customers.
- Troubleshoot all manner of problems with hosting servers.
 - Red Hat Enterprise Linux (4.x and 5.x) and Solaris (8 - 10)
 - VMware ESX (3.5 and 4.0) and VirtualCenter
 - HP C-class blade servers and Egenera blade frames
- Managed configuration of F5 BigIP and Cisco ACE load balancers.
 - Managed installation of SSL certificates on load balancers.

Security Administrator/Designer at Anheuser-Busch (2001.07 - 2006.12, 2008.04 - 2010.01)

- Developed web application to provide several different data views for NAGIOS monitoring system.
- Developed several scripts to gather and display aggregate information from firewall logs.
- Maintained Solaris and GNU/Linux operating systems.
 - Monitored log files and developed performance metrics.
 - Wrote scripts for various purposes, using UNIX shell, Perl, Python, and PHP.
- Troubleshoot network problems and implemented configuration fixes.
 - Client PCs, servers, routers, switches, load balancers, firewalls, proxies, WAN connections.
 - Monitored and analyzed metrics to proactively prevent and diagnose network problems.
 - Captured, decoded, and interpreted network traffic to diagnose problems.
- Maintained SideWinder, SnapGear, Gauntlet, and CheckPoint firewalls.
- Worked to improve and streamline various processes and procedures.
 - Remediated issues discovered in audits.
 - Improved customer expectations and communication.
- Configured and maintained network load balancers (Radware FireProof, Cisco 11K).

Community Involvement

- Co-host of This Agile Life podcast
- Active member of St. Louis Ruby Users Group
- Active member of St. Louis GNU/Linux Users Group
 - Chairman, 2001 - 2014
- Active member of St. Louis UNIX Users Group
 - Board of Directors, 2001 - 2004, 2007 - 2013
 - Secretary, 2004 - present
- Presentations on various technical topics at various venues
 - Ruby, Ruby on Rails
 - jQuery, JavaScript, AJAX
 - HTML, CSS, XML
 - Open Source, licensing

Education

- Rose-Hulman Institute of Technology (Terre Haute, IN), 1989 - 1992.
Computer Science major.