

# Craig M. Buchek

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## 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

- Created 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.

## 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, UNIX (Solaris, OpenBSD, HP-UX), Windows (3.1 - XP)
- **Network services:** Web servers (Apache, Nginx), Web proxies (Squid, Inktomi), Email (Postfix), file services (Windows, Novell, Samba, NFS), DNS (BIND 4 - 9), LDAP (OpenLDAP, iPlanet)
- **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
- Midwest Ruby Conference - 2011
- Windy City Rails - 2011
- Strange Loop - 2011, 2012
  - Hadoop training - 2012
- OSCON (Open Source Conference) - 2003

## Certifications

- Linux Professional Institute Certified - Level 1 (LPIC-1)
- CompTIA A+, Network+, and i-Net+ Certified Professional
- Microsoft Certified Systems Engineer (MCSE NT 4.0) and Microsoft Certified Professional (MCP)
- Novell Certified NetWare 5 Engineer (CNE) and Certified NetWare 5 Administrator (CNA)
- Cisco Certified Network Associate (CCNA) - Routing and Switching (expired)
- Sun Certified Programmer for the Java 2 Platform

## Professional Experience

### Cloud Engineer at Express Scripts (2012.10 - present)

- Worked on a team building an internal cloud infrastructure.
- Developed web interface to access systems deployed to the cloud.
- 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.

### 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.

### 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 and VPNs.
- 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).
- Maintained and configured Cisco switches and routers.

#### **Networking Consultant** at Charter Communications (2001.05 - 2001.06)

- Implemented method of automatically configuring cable modems for a large Internet Service Provider, with approximately 20,000 cable modem customers per site.
- Developed back-end code to integrate configuration with front-end web code.
- Designed scalable LDAP schema to store information about customer devices.
- Installed and configured iPlanet Directory Server 5.0.
- Wrote Perl scripts to access and update information in LDAP database.
- Configured Cisco Network Registrar DHCP server to utilize LDAP as its information store.

## **Community Involvement**

- Active member of St. Louis Ruby Users Group
- Active member of St. Louis GNU/Linux Users Group
  - Chairman, 2001 - present
- Active member of St. Louis UNIX Users Group
  - Board of Directors, 2001 - 2004, 2006 - 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.