

Chad Clark

chad-resume@superfrink.net

403-619-5884

I have been a developer and sysadmin for over a decade. My full-stack understanding of web applications has made me an excellent go-to person for design, development, and debugging.

Experience:

Senior Systems Architect with Shaw Communications - May 2013 - Present

Architect for a new web application. Responsible for gathering requirements, current-state discovery of 3 data silos, designing a SOA with 8 services, and designing 4 APIs to retrieve and store information.

Worked with BA and product teams to define requirements and mockups. Worked with other teams to determine what data their systems contain, how to access it, and how to relate the data between systems.

Software Architect with Shaw Communications - November 2009 - May 2013

Go-to person for debugging, programming, Linux, and networking questions. Despite the lack of a formal mentoring program, I actively sought opportunities to mentor.

I worked cross team on all aspects of the software life cycle, from design to fault tolerant deployment through to graceful decommissioning.

Initiated, planned, and implemented a web application diagnostic tool for a site that relied on multiple services. The code was later integrated into several other projects.

Initiated, designed, and implemented a mobile-friendly view of a web site increasing time spent on the site by 25% and decreasing the homepage bounce rate by 28%.

Sped up web site content by up to 90% via caching computed content and compression.

Sites worked on included: music.shaw.ca, phone.shaw.ca, signon.shaw.ca, and vod.shaw.ca. I also worked on authentication and authorization for streaming applications.

System Administration and Development with Bernoulli Networks - August 2006 - November 2009

Clients chose to call me directly because I empathized with them, I cared about our customers, I only used technical terms as my client needed, and of course, I provided solutions.

Built network monitoring for customers' routers and web sites, a VOIP service targeted at small businesses, and a web hosting service using chroot.

Research Programmer with Codefast - March 2005 - July 2006

Wrote C and Perl to calculate software compilation dependences across a multitude of interrelated platforms.

Senior Programmer with Evolvs Media / iStockphoto - August 2001 - March 2005

Built a load balancer using Perl and iptables. Code written for istockphoto.com is still in production (as of December 2012).

Education:

- B.Sc. in Computer Science - University of Calgary.
- Three years of electronics in high school.

Skills:

Programming: Perl, Go, JavaScript, C, PHP, Bash, AWK, C++, Python, Scheme, Prolog, assembly

Server software: Apache, Asterisk, BIND9, squid, Node.js

Systems: Ubuntu, RHEL, Slackware, OpenBSD

Reliability: Load balancing, monitoring, graphing, alerting

Networking: TCP/IP, DNS, OpenVPN, HTTP, Cisco, IPv6, tcpdump

Databases: PostgreSQL, MySQL

Development: Mercurial, Subversion, Git, Request Tracker, JIRA, Mingle

Misc: Single Sign On, HMAC

Personal Projects:

- Running IPv6 at home and on my phone via VPN.
- Installed Ubuntu on an Android phone to work on code while commuting.
- Wrote a tutorial on adding system calls to i386 Linux which has been referenced by several university operating system courses.
- Wrote a tool to find the most frequent words in the results of a Google search.
- Wrote a tool to show ebay.com items for sale and locations using Google Maps.

Previous Activities:

- One year as Vice President Academic for the University of Calgary's Computer Science Undergraduate Society (CSUS).
- Wrote and contributed to tutorials on Account Security and, Debugging Strategies for CSUS.
- Co-authoring and presenting an introduction to UNIX workshop for students new to computer science at the University of Calgary.