

# Steven Bengtson

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## Profile

I am a Software Developer, Designer and Leader of projects. I enjoy working on improving applications and processes to create applications with better quality and speed of development.

## Skills

Operating Systems: Windows, Linux (Ubuntu, Debian, Red Hat, Gentoo), macOS  
Programming Languages: C++, Php, Ruby, Javascript, HTML, CSS.  
Frameworks: Rails, Symphony, Angular, Mozilla  
Database: MySQL, Postgres

## Experience

### **Senior Software Developer at Genologics an Illumina Company** September 2017 - December 2017

At Genologics I was given the opportunity to build a new front end user interface into a workflow project. Using Angular 4 with Twitter Bootstrap I was able to quickly build up a friendly interface with strong unit testing. I had little knowledge in the Angular 2+ but was able to quickly get up to speed and contribute a strong architecture.

### **Senior Architect and Developer at VarsityTutors Inc.** November 2013 - September 2017

At While at VarsityTutors I have been able to help develop strong processes and be an integral part of a major piece of the company. I was the primary developer to build out the OnlineTutoring Platform that involved several major pieces of technology, WebRTC, Peer 2 Peer communication channels, collaborative editing and drawing.

### **Software Developer at Shaw Communications.** September 2013 -November 2013

At shaw I was part of the satellite development team working on the DreamGallery system to port the same guide system that is currently on the cable box systems to the new satellite box systems. This involved using Javascript and SVG on a prototype base..

### **Tech Lead at Place2Give.** March 2013 -August 2013

Place2Give was a wonderful opportunity where I got to take on a stronger leadership role in not only development but management of the application as a whole. I got the chance to branch into the Microsoft world with .Net and related technologies.

### **Senior Architect and Developer at RevenueWire Inc.** October 2010 -March 2013

At RevenueWire I put into place several procedures for better development. These include peer code reviews, continuous integration and proper sign offs for parties involved in projects. I also contributed as one of the main software developers. I currently work with the team to progress our framework forward by designing our applications and core structure.

### **Software Developer for Silicon Sisters** May 2012 - September 2012

Working with Silicon Sisters I helped develop an iOS application (iPhone and iPad compatible) called Nomi. This was a small questionnaire game that determined your compatibility between friends. I worked on various features like UI Layouts, Object storage, Media playback, and Server synchronization.

**Senior Software Engineer at Skyfire Labs Inc.** July 2010 - October 2010

Working with a small team of Javascript engineers to customize Firefox so it can be used on a server for browsing with a mobile browser called Skyfire.

**Senior Software Engineer at Pioneers of the Inevitable** August 2007 – July 2010

Working with a team of Mozilla developers to build a Media Player on the Mozilla toolkit. In developing this application I work with Javascript, XUL, XBL and C++ languages.

**Senior Software Engineer at Flock Software Inc.** September 2006 - August 2007

As a developer for the Flock project I worked with the Mozilla toolkit to develop a Social Web Browser. This development work was with Javascript, XUL, XBL and C++ languages.

**Software Developer at Mercurial Communications Inc.** March 2005 - August 2006

At Mercurial I was a software developer for various projects, the projects mostly focused around C++ application development on the Window platform but also included a project developed on Linux using the ARM architecture.

**Project Leader at IROC Systems Corp.** November 2001 - March 2005

I was the Senior Developer and Project Manager for the S.M.A.R.T. application and all resources allocated to it. This position allowed me to use and learn several development languages and systems including C++, Visual Basic, ASP, PHP, Microsoft SQL Server, MySQL. I was also able to develop on both Windows and Linux (Red Hat Enterprise) systems.

**Developer, System Monitor at Common information Technology Infrastructure (BC Government)**

August 1999 - August 2001

Contract position for development of small administrative applications focused mainly on Perl using a MySQL database.

## Education

**Camosun College** September 1997 - June 2000  
Computer Systems Technology Diploma

**Ponoka Composite High School** 1992-1993  
High School Diploma

## Projects

### VarsityTutors Online Tutoring Platform

The Online Tutoring Platform was a logical step for the company, here we created tools that allowed Tutors and Students to have full tutoring sessions from the comfort of their own homes remotely connected to each other. Within only a few months of the initial release of the product it accounted for almost 50% of our tutoring sessions.

### Revenue Wire SafeCart

<http://safecart.com> that provides a cart system for software purchases and provides a portal for users to find products available. <http://www.revenuwire.com> an interface for clients (merchants, affiliates and manager) to manage the products and offers available. Linker system to link affiliates to sales for commissions

### Skyfire Mobile Browser

Working on the server side of the browser project. This consists of modifying the Firefox Browser by adding extensions and changing base code to detect flash videos and extra social content.

### Songbird Media Player

Worked on building a media player using the Mozilla toolkit.

Work Done:

- Pre Eno (0.3-0.5):
  - Started out with various play list bugs (display, feedback, actions).
  - Did some work on the preferences dialog for the music downloads folder.
  - Worked on the Download button ui in the play-list tree.
- Eno (0.6):
  - Helped David and Mark with the initial mtp device add on
  - Built the majority of the mtp device summary page.
  - Implemented sbIDeviceCapabilities, sbIDeviceProperties
- Fugazi (0.7):
  - Implemented Album Art reading/writing through taglib for mp3 iD3v2 tags.
- Genesis (0.8/1.0):
  - Created Album Art Display pane and added album art editing to the Meta-data Editor
- Hendrix (1.1) - Album Art Fetching
  - Adding LastFM fetcher
  - Creating Amazon fetcher Add-on for others to reference
  - Adding a fetch missing covers menu option
  - Adding context menus to display pane/track editor for fetching album art
- Isan (1.2)
  - Automatic Media organization (Media Management)
  - Worked on the back end system to manage the users media library into folders and file names based on the meta data from the media items.
- Kanye/Korn (1.4.3)
  - CDRip interface
  - Worked on the back end device code to import CDs and encode to selected formats.
  - Helped with user interface for setting configuration of CD ripping.
  - Improved on the previous implementation of the Media Management system.
- Led Zeppelin (1.5.0)
  - Helped with video import, playback and device sync.
- Madonna (1.6.0)
  - Helped with stability and performance improvements.
  - Helped with implementation of video trans coding system.
- Nirvana (1.7.0)
  - Helped with stability and performance improvements.

- NOFX (1.7.2)
  - More performance and stability improvements.
- Orbital (1.8.0)
  - Implementation of new Service Pane.
  - New Notification back end.
  - Device Sync clean up, user interface components.

### **Flock Social Web Browser**

Worked on integrating social network systems into the Firefox web browser base to create the Flock Social Web Browser, including a photo up-loader, blog editor and services back and front end.

Work Done:

- Developed Services Account Manager sidebar.
- Allowed XMLHttpRequest to provide proper progress updates for Photo uploading. (Latter fixed by Mozilla as well).
- Worked on various services like (Flickr, Facebook, Delicious)
- Helped maintain the RSS Sidebar.
- Worked on the media bar search functionality.
- Worked on bugs in the Blog Editor and Photo Up-loader.

### **Street Light Technologies:**

Worked on embedded systems that allowed more control over street lights using a basic C development system in windows and Linux environments.

### **INK PC:**

Helped compile and develop applications for the INK PC system (a system similar to the One Laptop Per Child project). This involved compiling Linux application (Core, Xorg, Gnome, Mozilla) for the ARM architecture.

### **AOL PC:**

Helped convert a C# application into a Mozilla based C++/Javascript application for the AOL personal computers.

### **Netscape version 8.0 and 8.1:**

Worked on the integration of the Internet Explorer rendering engine using windows c++ coding with the Firefox 1.0 and 1.5 base. Helped with the development of a new form fill system, parental controls and security system, and enhanced the existing user profile system. Implemented the balloon help system that provides helpful information about different parts of the browser.

### **Sat-Tel S.M.A.R.T. Readings Web Site:**

Designed and implemented the S.M.A.R.T. Readings web site to give customers access to information gathered by monitoring units.

Updated and maintained S.M.A.R.T. Call Center for safety monitoring system. Designed and implemented reporting system for safety monitoring.

Configured and administered Windows 2000 and Red Hat Linux clustering solutions.

Clusters included setup of MySQL and Microsoft SQL database servers, Microsoft Exchange 2000 server and both IIS and Apache servers.

Maintained a proprietary data logging system for H2S and SO2 dangerous gas remote monitoring through satellite communications.

### **MicroAge Computer Center Web Site:**

Designed and implemented the company web site for MicroAge in Red Deer Alberta <http://www.microage.ab.ca> . Also design and/or maintain MicroAge client web pages (<http://www.aotda.com> , <http://www.reddeerchamber.com> , <http://www.penedrill.com>)

### **System Scanner and Status Reporting:**

Planned and developed a system for scanning server status and reporting on outages. Using MySQL, Perl, and HTML I created an application that would run as a service and scan servers to determine if they are still functioning correctly. This application created reports using HTML to provide monthly statistics on server outages.

**Government Telephone Directory Service (GTDS):**

Helped develop sections of the GTDS system using the Perl programming language. These sections included sorting and displaying results. <http://www.dir.gov.bc.ca>

**Operational Tools:**

Developed a series of small Linux applications to help with operational tasks in the email department of the Government of BC.

**Voice Email Client:**

Designed and developed a small email application that used voice navigation to control using the win32 text to speech api. This was a school project for Camosun College.

**Referrals**

Available upon request.