

## Open Source

"If I have seen further, it is by standing on the shoulders of giants"  
– Isaac Newton

From processors, compilers, kernels, to browsers. Programming is about building on the work of others. Open Source embraces this fact and leverages it. Open Source is about inviting anyone onto your shoulders.

<b>Foomatic</b>	Primary contributor to Foomatic 5.0 series. Added support for sqlite backends. Rewrote XML backend replacing 10k lines of code with 2k and improved performance. In 2011 as part of the GSoC program Google funded my foomatic contributions.	2010-12 to 2012-04
<b>libjtapi</b>	Primary developer. Libjtapi is the reference implementation of the Free Standard Group's Job Ticket API, jtapi. My work is being done under Google's Summer of Code program.	2012-03 to 2012-10

## Web development

For three years starting in 2010 much of my web development was on a freelance basis. In preparation for my Microsoft internship I wound down my freelancing to focus on personal projects.

The websites listed are those I learned the most from. Numerous others not listed are still running and serving their owners well.

<b>gamecrazy.com</b> <b>hollywoodvideo.com</b> <b>moviegallery.com</b>	Did all backend and initial front end programming. Every hour popular content is aggregated based on social media signals. All three sites use the same engine with site specific configuration.
<b>marilynmonroe.com</b>	Developed to beat flash on its own turf with large full screen backgrounds and brand perfect fonts. The theme was created from a client supplied PSD.
<b>necaonline.com</b>	Did all major programming including migrating 1000s of images, products, and posts from proprietary ruby backed site.
<b>smrsimple.com</b>	Since launch in 2009 we have served over 150,000 visitors over 1,300,000 pageviews, and over 100,000 map downloads.

## Education

GPA by end of third year: 3.47

University of Calgary	Bachelor of Science in Computer Science	2010-09 to 2014-05
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## Notable Experiences

While in university I took advantage of numerous programs which complemented my interests. I must thank my mentors who were all enthusiastic, and patient. They put up with some of my most silly mistakes and taught valuable lessons.

Program	Mentor	Description	Time
Microsoft SDE Internship	Eric Millan	Interned with Windows Division, Sustained Engineering Group, Devices & Networking Team.  Wrote OCASE BCDE, a bulk analyser for windows mini-crash dumps. BCDE takes a debugger script which it runs across large quantity of crash dumps capturing results. Also backported bug fixes from Windows 8.1 to Win 7 & 8.	Summer 2013
Google Summer of Code 2012	Glen Petrie	Wrote LibJTAPI, an abstract job ticket manipulation library. Also see 'libJtapi' in Open Source section.	Summer 2012
Google Summer of Code 2013	Till Kamppeter	Rewrote Foomatic's DB XML backend into Perl. Wrote a SQL backend, also in Perl. Also see 'Foomatic' in Open Source section.	Summer 2011

## Skills

### Languages:

C  
Perl  
PHP  
Java  
Javascript

### Tools:

Perl DBI  
SQLite  
Unix cli  
SSH  
rsync

### Platforms:

Linux  
Android  
Web

### Web Tech:

jQuery  
Wordpress  
HTML  
CSS

### Languages:

English  
Japanese (下手)