

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

Open Source

Cordova APIs	Distributed team member contributing to Blackberry OS 10's html5 environment. We are creating native plugins implementing missing APIs vital to application porting for Cordova (PhoneGap) applications.
Foomatic	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.
libjtapi	Primary developer. Libjtapi is the reference implementation of the Free Standard Group's Job Ticket API, jtapi.
PPSSPP keymapping	Contributed cross platform keymapping. Required large scale refactoring of input path. Feature was released in version 0.9
afterRead	Created wordpress plugin for inserting dynamic content in post footers. Featured plugin interface. First piece of released software I ever made.
ANDSemu	Primary contributor to nds emulator for android. Fork of nds4droid focusing on user experience. Introduced UI features later incorporated by upstream.

Notable Experiences

I must thank my many mentors, they all helped me grow as a programmer.

Program	Mentor	Description	Time
UCOSP 2013	Tim Windsor	Undergraduate Capstone Open Source Projects (UCOSP) is course for 40 of Canada's top university students. We are organized into distributed teams to contribute towards existing open source projects. Also see 'Cordova' in Open Source section for project details.	Fall 2013
Microsoft SDE Internship	Eric Millan	Interned with Windows Division, Sustained Engineering Group, Devices & Networking Team. Wrote OCASE BCDE, a bulk analyzer 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 & Win 8. I received a job offer but turned it down for personal reasons.	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 2011	Till Kampeter	Rewrote Foomatic's DB XML backend into Perl. Wrote a SQL backend, also in Perl. Also see 'Foomatic' in Open Source section.	Summer 2011

Web development

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

gamecrazy.com hollywoodvideo.com moviegallery.com	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.
marilynmonroe.com	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.
necaonline.com	Did all major programming including migrating 1000s of images, products, and posts from proprietary ruby backed site.
smrsimple.com	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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2013-09-11
Daniel Dressler
danieru.dressler@gmail.com
 1-403-970-2623

1166 Prestwick Circle S. E.
 Calgary, Alberta
 Canada