# Andrew Clunis

## Personal

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## Overview

I'm a full-stack technologist, open source hacker, devops fanatic, Android developer, and startup nerd. I'm something of a generalist and have interests, expertise, and experience distributed throughout multiple phyla of the software ecosystem. I tend to place a high value on the goals of repeatability, flow, and decentralization in my designs.

## Environments

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| Languages | Ruby, JavaScript, Golang, Python, C (and ++), C#, Java, ObjC, and more |
| Platforms | GNU/Linux, *BSD, Android, OS X, AWS, Windows, CoreOS, and Docker |
| Stacks | Node.js, Ember.js, Rails, Android (and internals), distributed databases such as CouchDB and Riak |

## Engagements and Projects

If a project was part of a larger engagement, it is noted in small text on the left.

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| Feb 2014-Jul 2014 | Technology Co-founder of Miralaw Inc.<br>As the first hire, designed, led, and implemented entire technology stack and was instrumental in defining the company. Created an Ember.js single-page web frontend backed by a separate Rails 4 API app, with data persistence in Riak and Riak CS. Created append-only, highly auditable, cloud and mobile friendly data storage model. Wrote Capistrano-based ops pipeline that encapsulated all workloads into Docker containers, for deployment onto leased domestic VMs (Canadian data residency requirements prevented use of PAAS offerings like Amazon or Heroku). Recruited a web frontend developer with Ember.js expertise to manage frontend. |
| Sep 2013-Feb 2014 | Full-stack Developer for LiveQoS Inc.<br>Joined through the acquisition of Openera. Wrote OpenVPN session load balancer (very basic userspace UDP NAT) in Golang for a VPN service product that applied LiveQoS' proprietary QoS technology. Assisted with Android integration of their stack. |
| Jun 2013-Sep 2013 | Full-stack Developer for Openera Inc.<br>Wrote real-time push notification service to trigger processing of customers' attachments as they arrive, using Ruby, Celluloid, and IMAP. Solved Core Data concurrency issues in the iOS app. Implemented MVP of Android app. Acquired by LiveQoS in September. |

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| APR-JUN 2013 | Software Developer *for* MAGELLAN VACATIONS INC.<br>Assisted with deployment of new custom CMS, including implementing a new web session state integration regime across their fleet of domain name properties. |
| JAN 2012-OCT 2012 | Software Developer *for* MACADAMIAN TECHNOLOGIES INC.<br>Worked on two customer projects (Samsung and RIM, detailed below), and internal research projects regarding new platforms (namely Xamarin MonoDroid/MonoTouch and Windows Metro). |
| MAR 2012-JUN 2012<br>Macadamian | Software Developer *for* SAMSUNG *via* MACADAMIAN<br>*Android Frontend for a Prototype Mobile Edge Networking System on Android*<br>Implemented application-specific protocol at layer 6, application UI navigation regime, and other UI components. As team member most experienced with git, assisted others routinely. Used Android and Java. |
| JUN 2012-OCT 2012<br>Macadamian | Software Developer *for* RESEARCH IN MOTION *via* MACADAMIAN<br>*Platform Demonstration Application*<br>Designed and implemented backend REST content service and BlackBerry 10 mobile app client interface bindings. Used C++, QNX, QtCore, C#, .net MVC 4, and BB10 Cascades. |
| SEP 2008 - MAY 2014 | Maker and Founding Board Member *at* CREDIL<br>Participated in the founding of the organisation, implemented technical solutions using Free Software (detailed below) for multiple organisations as a part of CREDIL teams. Continuing to serve in an advisory role. |
| NOV 2010-JUL 2011<br>CREDIL | Software Developer *for* HRSDC<br>*Video Stream "Reflector" for IITB Webcasting System*<br>Implemented "Stream Pump", a thin MMSH video stream proxy for delivering of live video to large numbers of desktops behind network bottlenecks in lieu of layer 3 multicast. Used Node.js and GNU/Linux. |
| SUMMER 2011<br>CREDIL | Software Developer *for* LANGUAGE TECHNOLOGIES RESEARCH CENTRE (CRTL)<br>*Remote Desktop Access Customer Portal*<br>Bootstrapped customer portal and authentication facilities. Specified requirements for and integrated designer-produced layout and visual design assets. Used Rails 3 and PostgreSQL. |
| SEPT 2008-DEC 2011<br>CREDIL | Software Developer *for* NOVAVISION<br>*Retail Ambient Music and Digital Signage System*<br>Implemented administration UI, REST interface, playlisting control, audio playback, and display components. Used GNU/Linux, Ruby, GTK, Gstreamer, Clutter, the MRI Ruby C API, pyusb, and Rails 2. Ancillary work included JS REST client for browser RIA, and driver for LCD display unit. System remains deployed for several large supermarket customers. |
| AUG 2009-JUNE 2010<br>CREDIL | Software Developer *for* OTGV-C<br>*SIP/h.264 Video Softphone Application for Android*<br>Contributed to multiple components of the stack, including the streaming media engine and user experience. Used Android, Java, C++, PJSIP, and OpenCore. |
| SUMMER 2008<br>CREDIL | Software Developer *for* MELOCHE TELEVISION<br>*Presentation Display for Live Television Events*<br>Implemented server and display components. Used GNU/Linux, Ruby, GTK, and Rails 2. Developed for live industry television event hosted by a large pharmaceutical manufacturer. |
| APR 2007-SEPT 2008 | Software Developer *for* INFOGLOBE<br>Supported existing television presentation system. Developed recorder appliance system for use in legal procedings, using Python and Gstreamer. |
| WINTER 2006 | Drupal Developer *for* OPENCONCEPT CONSULTING<br>Developed a solution to migrate web site content from an older proprietary CMS system to Drupal 5. |
| JUL 2003-JUL 2006 | IT Administrator and Developer *for* INFOMAN INC.<br>Wrote an app for tracking terms and definitions for ISO JTC1 standardisation processes on e-business and e-learning. Used GNU/Linux, PostgreSQL, and Rails 1.0. |