Andrew Clunis

PERSONAL

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OVERVIEW

Andrew Clunis is a developer, with special emphasis on Open Source and Agile approaches, with experience writing both desktop, mobile, server, and JavaScript-based rich web client applications. An active participant in the Free Software and Linux communities, Andrew has contributed code to a number of different projects. He is something of a generalist and has interests, expertise, and experience distributed throughout the depth of multiple stacks, and cares a great deal about software elegance and approachability.

TECHNOLOGIES

OPERATING SYSTEMS	GNU/Linux (Debian/Ubuntu), *BSD, Android, Microsoft Windows
LANGUAGES	Ruby, JavaScript, Python, C(++), C#, Java, ObjC
SYSTEMS	GTK, Gstreamer, Rails, Android (and Android internals), Mono, Node.js, iOS, .net MVC, Xamarin's MonoDroid and MonoTouch, git, and the Linux kernel

ENGAGEMENTS AND PROJECTS

Current SEPTEMBER 2008	**Maker and Founding Board Member** *at* CREDIL 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 as board member.
JAN 2012-OCT 2012	**Software Developer** *for* MACADAMIAN TECHNOLOGIES INC. Worked on two customer projects (detailed below), and internal research projects regarding new development platforms (namely Xamarin MonoDroid/MonoTouch and Windows Metro).
MAR 2012-JUN 2012 Macadamian	**Software Developer** *for* SAMSUNG *via* MACADAMIAN *Android Frontend for Prototype Mobile Edge Networking System* Implemented application-specific protocol at layer 6, application UI navigation regime, and other UI components. Used Android and Java.
JUN 2012-OCT 2012 Macadamian	**Software Developer** *for* RESEARCH IN MOTION *via* MACADAMIAN *Platform Demonstration Application* 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.

Nov 2010-Jul 2011 CREDIL	Software Developer *for* HRSDC *Video Stream "Reflector" for IITB Webcasting System* Implemented "Stream Pump", a thin MMSH video stream reflector for enabling delivery of live video content to large numbers of desktops behind network bottlenecks. Used Node.js and GNU/Linux.
Summer 2011 CREDIL	Software Developer *for* Language Technologies Research Centre (CRTL) *Remote Desktop Access Customer Portal* Bootstrapped customer portal and authentication facilities. Specified requirements for and integrated designer-produced layout and visual design assets. Used Ruby on Rails and PostgreSQL.
Sept 2008-Dec 2011 CREDIL	Software Developer *for* NovaVision *Retail Ambient Music and Digital Signage System* Implemented administration UI, REST interface, playlisting control, audio playback, and display components. Used GNU/Linux, Ruby, GTK, Gstreamer, Clutter, the Ruby C API, and Ruby on Rails. Implemented userspace driver for LCD display unit included in the hardware platform. System deployed for several large customers.
Aug 2009-June 2010 CREDIL	Software Developer *for* OTGV-C *SIP/h.264 Video Softphone Application for Android* Contributed to multiple components of the stack, including the streaming media engine and user experience. Used Android, Java, C++, PJSIP, and OpenCore.
Summer 2008 CREDIL	Software Developer *for* Meloche Television *Presentation Display for Live Television Events* Implemented server and display components. Used GNU/Linux, Ruby, GTK, and Ruby on Rails. Developed for live industry television event hosted by a large pharmaceutical corporation.
Apr 2007-Sept 2008	Software Developer *for* Infoglobe 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 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. Maintained small office network, implemented a web application in Rails for managing terms and definitions used in ISO JTC1 standardisation processes on e-business and e-learning. Used GNU/Linux, PostgreSQL, and Ruby on Rails.
2003-2008	IT Administrator *for* Integral DX Engineering Ltd. Provided incidental support and consulting on IT systems using Free Software for a growing mechanical engineering firm.

COMMUNITY AND OPEN SOURCE

Contributed to or created the following projects:

STREAM PUMP	**MMSH Video Stream Reflector in Node.js** Created new Free Software project to implement the HRSDC webcasting project detailed above.
MINECRAFT OVERVIEWER	**Minecraft to Google Maps JS API renderer** Contributed sign live search box, allowing users to find places of note in a large Minecraft map quickly.
CHESTERSHARP	**Access CouchDB asynchronously from C# under both Mono and .net** Implemented with Mono, HttpClient, and CouchDB
GMUSICBROWSER	**Media Player in Perl and GTK** Contributed plugins, specifically for automatic song rating and an HTTP web interface and REST API.
GMB REMOTE	**Remote Control App for Gmusicbrowser in C# for both Android and iOS** Created mostly as a demonstration of portable app development with the Xamarin Mono* platforms.
RBCLUTTER	**Ported rbclutter to Clutter 1.6** Ported rbclutter, a Ruby binding for the Clutter 3D user interface library, to Clutter version 1.6.
TUKIA	**Controlled Vocabulary Management Tool for ISO standardization processes** Created in Ruby on Rails 1.x for Infoman Inc., as detailed above.
OLPC	**One Laptop Per Child** Contributed specifications and prototype of Develop activity, a component intended to enable children in the OLPC program to modify and create Activity software.
SRB2	**DOOM-based game with a classic platformer twist** Contributed some platform support code, bug fixes, and hosting of online development facilities including issue tracking and source code repository.
OCLUG	**Ottawa Canada Linux Users' Group** Served on board of directors in 2004.