Andrew Clunis

Personal

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Overview

I'm a full-stack technologist, open source hacker, devops enthusiast, and startup nerd. As a generalist, I have interests, expertise, and experience in multiple domains. I tend to emphasize the goals of repeatability, flow, and horizontal scalability in my contributions. I want to help you build an ambitious platform through technology leadership.

Environments

LANGUAGES	Ruby, Golang, JavaScript, Kotlin, Python, C (and ++), C#, Java, ObjC, and more
PLATFORMS	Linux, *BSD, Docker, Google Cloud Platform, AWS, and Kubernetes
STACKS	Node.js, Rails, Android (and internals), Beego, distributed databases such as CouchDB, RethinkDB, and Riak

Engagements and Projects

OCT 2014-

Full-stack Developer *at* JOIST

As an early team member, I've been a key contributor on the reimplementation of our Android app for trades contractors (including building the case to invest in the new Kotlin language), worked on internal tools for our marketplace offering, and created a fork of an existing open source project for mitigating the limitations of customization deployments to a legacy industry CRM product.

FEB 2014-JUL 2014

Technology Co-founder *of* MIRALAW INC.

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.
	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.
	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 as skunkworks project. Acquired by LiveQoS in September.
APR-JUN 2013	Software Developer *for* MAGELLAN VACATIONS INC.
	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.
	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 Macadamian	Software Developer *for* SAMSUNG RESEARCH AMERICA *via* MACADAMIAN *Android Frontend for a Prototype Mobile Edge Mesh Networking System on Android*
	Contributed to implementation of 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 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.
SEP 2008 - MAY 2014	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 in an advistory role.
NOV 2010-JUL 2011 CREDIL	Software Developer *for* HRSDC *Video Stream "Reflector" for IITB Webcasting System*
	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 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 Rails 3 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 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.