CLARK VAN OYEN

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EXPERIENCE

2016 Technical Highlights

· A 3D Car Configurator - http://www.animaticmedia.com/nissanconfigurator/examples/nissan.html
· A VR Comic Book - http://www.animaticmedia.com/vr/drstrange/
· Medical Devices Cloud - cloud.clarius.me

Countable Web Productions Inc.   December 2008 - present
Owner   *New Westminster, BC*

· Full stack web based system design, distrubted systems, firmware management, business domain driven design, back-end infrastructure.
· API integration with mobile apps, sensors / the Internet of Things.
· Rapid prototyping minimum viable products to gain insight on product-market fit.
· Specialized in unusual web technology deployments, process automation, and contributing the "cloud" platform/strategy to products.
· Developed BawksBox (http://htmlcommentbox.com) now serving over one hundred million visitors per day.
· Clients list includes Nissan, Marvel and Sesame St (through Animatic Media), Clarius Corporation, Corvus Energy, Kensington Medical, EmerGeo, Altas Realty, Ecotrust Canada.

Ecotrust Canada   January 2014 - Jan 2016
(Consulting) Chief Technology Officer   *Vancouver, BC*

· Developed original core technology of Ecotrust Canada's traceability and electronic monitoring programs, now a seven figure business with dedicated teams.
· Provides technology direction for products, monitors emergent technology opportunities; sources and mentors technical staff; Contributes technology related strategy and planning, grant and SRED applications, budgeting, licensing and reporting.
· Works with developers and engineers on architecture, technology lifecycles, testing and implementation.

Redback Networks / Ericsson   December 2006 - 2007
ATM Protocol Developer   *Burnaby, BC*

· Contributed to the ATM protocol stack in a carrier class router. Developed test coverage tools, worked through a backlog of bugs that spanned other teams modules.
· Refactored ATM module codebase to address issues found by a static analysis tool.

Convedia / Radisys   December 2005 - 2006
Automation Specialist, SIP Developer   *Burnaby, BC*

· Developed an automated test manager that configured and utilized a lab full of carrier class computing hardware at night when otherwise idle, to test embedded media server product and report results through flexible web based visualizations.
· Wrote the unit test suite for a 3rd party SIP stack integrated by our media server. Contributed to a test harness for the media server product.

SELECTED TOOLS

Languages	Javascript, AWK, HTML, CSS, jade, stylus, OpenGL, MATLAB, TCL, C, C++, Basic (various), ASP, C#, Java, Python, Node.JS, PHP, R, CoffeeScript
Protocols	HTTP, TCP, XML, JSON, SOAP, REST
Databases	MySQL, PostgreSQL, Microsoft SQL, MongoDB, Redis, SQLite
OS / Platforms	(developed under) Windows, Linux, OSX, BSD, lynxos, Android, Arduino
Frameworks	Django, Express, Flask, Wordpress, jQuery, Backbone, Angular, ExtJS, (custom)
Other	GIT, SVN, AWS, Google App Engine, Scrum

SELECTED OPEN SOURCE

Through Ecotrust Canada GitHub   https://github.com/Ecotrust-Canada

· Hypochondriapp - Canadian Open Data Experience hackathon entry, see http://ecotrust-canada.github.io/hypochondriapp/ for a working version.
· Terratruth - A spatial referral management and decision support tool.
· EM Control Box - A remote sensing "firmware" for commercial fishery monitoring (runs in custom embedded linux).

Through Countable GitHub   https://github.com/countable

· node-dogecoin - Maintainer for the Node.JS Dogecoin (cryptocurrency) API.
· js-fdf - Maintainer for the Node.JS FDF implementation.
· Kinect3D - 3d version of Microsoft Kinect API sandbox using WPF 3d objects.
· (forks) - Contributed fixes, features, tests to several bigger OSS projects.

EDUCATION

University of British Columbia   *2008*
B.S. in Computer Science & Physics
Completed Co-op, Awarded NSERC

Canadian Association of Physicists   *2003*
85th percentile in CAP Prize Exam

Gulf Islands Film and TV School   *2002*
Classical Animation Certificate

Boundary Central Secondary   *2003*
Principal's Honour for 3 years
Received Jr and Sr Art Awards

PUBLICATIONS

Operationalizing Open-Source Electronic Monitoring Systems in New England Groundfish Sectors   *2014*
Fisheries Bycatch: Global Issues and Creative Solutions, Contributor

Interoperable Seafood Traceability Technology Architecture Issues Brief 11.6.15   *2014*
GFTC, IFT Publication, Contributor