





Self motivated software engineer, HCI researcher, designer and entrepreneur with over 7 years of experience working with innovation and research in web technologies, ubiquitous computing and social networks.

roberto calderon

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IN A NUTSHELL

Open-Minded
Quick-learner
Determined
Explorer
Creator

INTERESTS

UI/UX, HCI, Web, IoT, AI,
Startups, Innovation.

SKILLS

Full-Stack Development,
UI/UX, HCI Research.

HUMAN CODE

English, Spanish, French


COMPUTER CODE

♥ Scala, Java, NodeJS,
Python, ♥ Go, Ruby, Elixir,
HTML5, CSS3, SASS/LESS,
Angular, JQuery, Selenium,
Javascript, Coffeescript,
MySQL, MongoDB, Redis,
PHP, C++, ♥ Linux

KEY ACHIEVEMENTS

- 🎓 PhD in Interdisciplinary Studies, specializing in Human Computer Interaction applied to physical and virtual places for human socialization.
- 🏆 Optimized product adoption by designing and implementing a Developer Hub  which included API documentation, libraries and development guides.
- 🏆 Created a novel web framework (RED ) to allow developers to prototype and deploy applications spanning multiple displays, sensors, actuators and wearable devices.
- 🏆 Founded several business ventures in the technology and design industries.

WORK

Bench Accounting.  2016–present

Software Engineer


Part of the engineering team aiming at increasing bookkeeping efficiency by automating and improving internal bookkeeping tools.

- Writing and maintaining high-quality and performant code for all levels of the application stack; from data access and business logic to web user interfaces.
- Collaborating with designers, project managers and other engineers to bring projects from ideation and user research to production.
- Monitoring and troubleshooting errors and anomalies of a microservices-based web application using cloud based logging and monitoring tools and providing fixes to issues encountered.

SenseTecnica Systems Inc.  2015–2015

Software Developer and Evangelist.


This role involved a combination of software developer, product evangelist and customer liaison responsibilities.

- Created and maintained developer libraries and guides (developers.sensetecnic.com ) to access our REST API and advocated their use among developer communities
- Developed and demonstrated example IoT (Internet of Things) applications to existing and prospective clients in order to grow business
- Designed, developed and tested beta back-end and front-end product features using NodeJS, Python, Ruby, HTML5, CSS/LESS and Javascript

Media and Graphics Interdisciplinary Centre at UBC  2010–2014

Software Developer – Graduate Research Assistant.

In charge of developing and evaluating web technologies and applications, conducting HCI research and supervising co-op student teams.

- Created and exercised a novel web framework (<http://red.calderonroberto.com> ) to easily prototype ubiquitous computing applications using Javascript, HTML5, CSS/SASS, RoR, Python and Java
- Conducted HCI research including gathering user requirements, conducting usability studies, and performing statistical evaluation of medium and high fidelity applications
- Managed teams of co-op student developers by outlining project requirements, mentoring students and ensuring results were delivered on target



Interdisciplinary Studies Graduate Department at UBC ☼ 2009–2014

DevOps, Web Developer and Advocate – Graduate Research Assistant.

This role involved development, operation and maintenance of the department's web site and social media strategy.

- Led the re-design and migration of the department's legacy website to WordPress, implementing several custom-built PHP modules
- Applied User Experience and Search Engine Optimization practices to improve the web site's usability and online presence

Box 60 Inc. ☼ 2011–2012

Co-Founder – CTO

I ensured that the company's technology strategy served its business goal by leading the design and implementation of our product.

- Created a company connecting mobile applications to Restaurant Point of Sales (PoS) for highly personalized dining experiences
- Designed, developed and real-world tested a scalable SaaS service using Java, RoR and HTML5
- Led a team of software developers, using agile practices, into producing a minimum viable product under a very tight budget and short timeline

OMG ARQ ☼ 2001–2006

Architect

In charge of conception, design and construction of residential projects through architectural designs, digital renderings and technical documentation for building contractors.

- Project manager for the design and construction of multiple residences, ensuring they were delivered on time and within budget
- Managed multiple teams of designers, building contractors, lawyers and architects, and coordinated project operations

Mimesis Arquitectura ☼ 2002–2005

Co-Founder

Built an architecture firm seeking to bring diverse fields of study into architecture practice through multidisciplinary research.

- Grew a successful and profitable business while studying a highly demanding degree in Architecture, Industrial and Product Design
- Implemented development practices from the field of software engineering (scrum and extreme programming) to improve and optimize architectural design practices

EDUCATION

University of British Columbia 2009–2016

Ph.D. Interdisciplinary Studies, Human Computer Interaction (HCI).

University of British Columbia 2007–2009

M.Sc. Interdisciplinary Studies; HCI Specialization.

Universidad Iberoamericana 1999–2005

Bachelor of Architecture, Industrial and Product Design

A riddle to take away: What happens
once every minute, twice every moment
and not once in a thousand years?