

Ernest Surudo

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I design and develop products and business solutions – end-to-end. If a project calls for it, I find and lead the team to get the job done. Freelancer and contract developer for hire.

Experience

FREELANCE CONSULTANT AND DEVELOPER, TWISTED LEAF, HAMILTON, ONTARIO, 2013-PRESENT

- ▶ Design and development of custom mobile and web applications
- ▶ Team augmentation services, refactoring, optimization, modernization
- ▶ *Selected portfolio available at www.twisted-leaf.com/portfolio*

TECHNICAL DIRECTOR, SIGN2WEB INC, HAMILTON, ONTARIO, SEPT 2014-PRESENT

- ▶ Architected and led development of application that powers “smart for sale sign solution” – buy a sign, get a linked web property
- ▶ Developed software for printing variable-data files in large-format – unique in the industry
- ▶ **Tech:** Ruby on Rails, PostgreSQL, Node.js, Vue.js, Stripe, AWS/Heroku

PARTNER, SNOWBIRD LTD, WATERLOO, ONTARIO, MAY 2013-PRESENT

- ▶ Designed and developed mission-critical tablet/web application for the submission and instant dissemination of runway weather condition reports in conjunction with Region of Waterloo International Airport – subsequently spun-off into product
- ▶ Application is in maintenance stage, currently used by several mid-sized airports in Canada
- ▶ **Tech:** Objective C, Swift, Ruby on Rails, PostgreSQL, Redis, Node.js, Heroku

CONSULTANT, CAPTUREPROOF INC, SAN FRANCISCO, CALIFORNIA, JUNE 2014-JULY 2015

- ▶ Led modernization effort of sizeable Ruby on Rails 3 application – including test coverage, Rails upgrade, and database schema overhaul (normalization, foreign keys, indices, performance tuning, deadlock and race condition removal in master-master setup)
- ▶ Developed new features including direct-to-S3 uploads, asynchronous processing pipeline (using Amazon SQS as message broker), and custom video encoding using ffmpeg
- ▶ Dealt with HIPAA compliance, and medical imagery formats, including DICOM
- ▶ **Tech:** Ruby on Rails, MySQL, AWS (EC2, S3, SQS), docker, Jenkins CI, ffmpeg

CONSULTANT, PHILANTHROKIDZ INC, WATERLOO, ONTARIO, JUNE-SEPT 2012

- ▶ Was brought in to refactor and improve a web application that allowed children to direct the flow of funding to charities of their choice by playing web games and earning points
- ▶ Restructured large parts of the application that were initially written as an MVP (minimum viable product), and rearchitected the database schema in accordance with best practices
- ▶ **Tech:** ASP.NET MVC, MS SQL Server

PROGRAM MANAGER, MICROSOFT, REDMOND, WASHINGTON, SEPT-DEC 2010

- ▶ Marketplace (app store) team of Windows Phone 7
- ▶ Worked with developers, testers, and other PMs to solve complex problems in the Marketplace
- ▶ Key project: dealing with heterogeneous device capabilities with regard to third-party app requirements

DEVELOPER AND PROJECT MANAGER, CBS INTERACTIVE, LOS ANGELES, MAY-AUG 2009, JAN-APR, 2010

- ▶ Designed and developed pioneering web service used for the lookup of music events near the user (geo-location)
- ▶ Key developer of the award-winning Radio.com iPad app – timed to release with the first iPad
- ▶ Developed proof-of-concept prototypes
- ▶ **Tech:** ASP.NET MVC (C#), MS SQL Server, Objective C

SOLUTIONS DEVELOPER, BLUESUN INC, BURLINGTON, ONTARIO MAY-AUG 2007, JAN-APR 2008

- ▶ Design consultation, project definition, scoping, and development for large clients in financial sector
- ▶ Developed data-mining web applications used for lead-generation in the insurance re-marketing industry
- ▶ Clients included some of the largest banks and insurance companies in Canada
- ▶ **Tech:** ASP.NET Web Forms (Visual Basic .NET), MS SQL Server

ANALYST, ENVIRONMENT CANADA, TORONTO, ONTARIO MAY-AUG 2005, JAN-APR 2006

- ▶ Worked to support the severe weather helpdesk
- ▶ Automated provisioning and maintenance of dozens of mission-critical UNIX/Linux servers
- ▶ Developed extensions to internally-used mapping software in Python
- ▶ Designed and developed a custom document repository for internal help-desk use
- ▶ **Tech:** Linux/UNIX, bash, Python, Perl

Education

UNIVERSITY OF WATERLOO, ONTARIO, CANADA — HONOURS BACHELOR OF COMPUTER SCIENCE, CO-OP

- ▶ Graduated with distinction
- ▶ Business and entrepreneurship classes to augment my major
- ▶ Electives as broad as my interests (History, English, and Philosophy, to name a few)

Technical Skills

★★★★★ Expert	Ruby on Rails (full-stack incl. HTML, CSS3, SASS, RWD) Objective C/Swift/iOS and UIKit Solutions architecture Relational schema design (PostgreSQL, SQL Server, MySQL)
★★★★★ Strong	Javascript/Typescript/Coffeescript Vue.js Cloud tech (AWS, Google Cloud Platform, Azure) C Linux/Unix admin Java C#/Visual Basic .NET/ASP.NET
★★★ Good	Node.js Python React Ember.js NoSQL (MongoDB) Functional programming – Scala/Play, Elixir/Phoenix, Clojure Blockchain fundamentals Graphic and UI/UX design

Soft Skills

- ▶ Product design from business-needs specifications
- ▶ Experience working with non-technical clients
- ▶ Strong communication and project management skills
- ▶ Knowledge of SCRUM, Kanban, and other agile methodologies
- ▶ Experience working remotely
- ▶ Building and leading small development teams