

Robert Harrison

Software Developer

San Diego, California

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Summary

iOS Developer and Owner of RWH Technology, LLC. Available for **contract work**.

- 10+ years of software development experience.
- M.A.Sc., University of Regina.
- Skilled with Objective-C, Swift and Xcode to develop iOS apps.
- 17 apps published on Apple App Store: 9 universal, 7 iPad, 1 iPhone, 1 Apple Watch.
- Experienced with iOS SDK and Cocoa Touch.
- Experience integrating third-party libraries and APIs.
- Strong database and front-end skills.
- Skilled at software design using UML and applying design patterns.
- Quality focus – unit, functional and regression testing.
- Strong technical writing skills.
- Constantly learning, evaluating, and applying new technologies and best practices, such as Agile.

iOS App Development Skills

Languages: Objective-C, Swift, SQL, XML, JSON

Database: Core Data, SQLite

Development Software: Xcode, Git, Test Flight, Instruments

Technologies: iOS SDK, Cocoa Touch, RESTful web services

Graphic Design: Sketch, Illustrator, Photoshop

Experience

1. Software Developer, 2011 – Present

RWH Technology, LLC, San Diego, CA

- Owner of RWH Technology, LLC
- Design and Implementation of iOS apps for helping children improve their speech and language skills.
 - Speech Cards (universal app, Pro and Lite versions)
 - Speak Colors (iPad app, Pro and Lite versions, English and Spanish versions)
- SQLite database.
- AVFoundation for voice recording and playback.
- UIKit for user interface construction and management.
- StoreKit for In-App-Purchases.
- Integrated Bing Image Search (RESTful web service using JSON).
- App Marketing via social media, blog articles, press releases, advertising, interviews, professional conferences.
- Graphic Design of artwork for apps and marketing materials.

2. iOS Developer, 2015 – Present

University of San Diego, San Diego, CA

- Design and implementation of Lift Up app using Objective-C, Urban Airship and Parse.
- Implemented new features and functionality in iOS apps integrated with Salesforce: USD Event Check-In and USD Kiosk.
- Custom Cup Champion for Event Check-In app at TargetX CRM Summit, 2015.

- Implemented virtual student ID in MySDMobile app using RESTful web service and OAuth2.

3. iOS Developer (Contract), 2014 – Present

Expressive Solutions, LLC, El Cajon, CA

- Implementation of Raffleway app for iOS in Swift. Includes Apple Watch support.
- Assisted with development of ArtikPix Levels for iPad in Objective-C.
- Assisted with development of PercentallyPro 2. Objective-C, Swift, Core Data.

4. iOS Developer, 2014 – 2015

PROVEN, Inc., San Diego, CA

Client: **University of San Diego**

- Torero Spirit (universal iOS app)
 - o Location Aware messaging using iBeacon and Swirl SDK.
 - o Implemented a “draw” feature so students may express and share their USD spirit.
- USD Check-In (universal iOS app)
 - o Re-designed UI to improve the user experience.
 - o Converted from iPhone only to universal.
 - o Graphic design of app icon and other images.
- Architecture, design and implementation of new apps.

5. Solution Architect, 2007 – 2011

Online Business Systems

Clients: FiServ, Sempra Energy, Litton Loan Services, Auto Club of Southern California

3.1 FiServ, Dallas, TX

- Documented the architecture and configuration of the Genesys environment.
- Analyzed the configuration of the Genesys environment and recommended a number of changes to improve the performance, stability, availability and management of the system.

3.2 Sempra Energy, San Diego, CA

- Genesys Technical Account Manager
- Provided architectural and functionality recommendations and input for architecture/design discussions.
- Facilitated communication between Genesys Product Management, Engineering, and Technical Support to ensure issues were resolved quickly.
- Enhanced the Genesys troubleshooting skills of the Sempra staff.
- Documented and implemented changes to all aspects of the Genesys system.

3.3 Sempra Energy, San Diego, CA

- Software Developer
- Implementation and testing of Genesys Agent Desktop web application using HTML, JSP, Java, JavaScript, XML and the Genesys Agent Interaction and Platform SDKs in an Avaya Communication Manager switch environment.
- Demonstration of the product to the client.
- Provided support during the user acceptance testing phase.

3.4 Litton Loan Servicing, Houston, TX

- Provided support for the Genesys call routing strategies.

3.5 Automobile Club of Southern California, Costa Mesa, CA

- Design, implementation and testing of database-driven call routing strategies using Genesys.

6. Research Assistant, 2004 – 2007

Energy Informatics Lab, Faculty of Engineering, University of Regina, SK

- Developed a number of software applications (using Java, Python, C#, XML, OWL) to model objects and processes for selecting method of remediation of petroleum contaminated sites.
- Project leader for a small team that developed a web-based (PHP), carbon dioxide data analysis system for the

International Test Centre for CO2 Capture.

- Researched software and hardware for visualizing oil, gas and geology. Data gathered enabled supervisor to receive \$104,000 in funding from Canada Foundation for Innovations.
- Server administration: Linux, Subversion, Apache HTTP Web Server.
- Published and presented research papers.
- Awarded Research Scholarship, University of Regina, September 2004 – November 2007.

7. Technical Support, 2004

Convergys, New Glasgow, NS

Provided telephone technical support for Microsoft Office Setup, Outlook and Outlook Express.

8. Software Developer, 2001

Nortel Networks, Ottawa, ON

Maintenance and development of optical network planning applications using C++.

Education

University of Regina, 2004 – 2008

M.A.Sc., Electronic Systems Engineering

- Specialized in Software Engineering/Applied Artificial Intelligence.
- Research interests: Ontologies, Semantic Web, Software Engineering.
- 7 publications.
- Thesis: Tools for Industrial Knowledge Modeling and Management.

University of Regina, 1998 – 2003

B.Sc., Computer Science

- Co-operative Education Program.