

# **Roberto Hinojosa**

## **Senior Web and Android/iPhone App Developer**

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### **PROFESSIONAL SUMMARY:**

Over 10 years of Web/Mobile Professional Dev Experience with extensive expertise analyzing, designing and developing Android/iPhone Apps and Web Applications using AngularJS, Angular 2+, Ionic, Cordova, PhoneGap, Google Maps, Leaflet, D3.js, SQLite, PouchDB, Sass, HTML/HTML5, CSS/CSS3, PHP, JavaScript, ES6, jQuery, jQuery UI, jQuery Mobile, AngularJS, Bootstrap, Java, MongoDB, DOM, Node.js, AJAX, MEAN, XAMPP, Apache Derby, MySQL and many more technologies.

- Senior Mobile and Web Developer with extensive Front-End and Back-End Mobile and Web Development experience.
- Expert creating Responsive Web Applications using Angular 2+.
- Expert creating all kinds of Custom Charts and Data Visualization using D3.js and SVG.
- Strong experience with Responsive Web Design using Bootstrap, SCSS, CSS/CSS3 and AngularJS.
- Vast experience with AngularJS and Angular 2 frameworks for development of single page applications.
- Extensive Experience in designing websites for mobile phones and desktop browsers that works for both the Browser and as a Mobile App using Cordova/PhoneGap and Ionic.
- Hands on experience with the MVC Pattern using AngularJS.
- Full lifecycle development experience.
- Usage of JIRA, Scrum and Agile development to deliver higher level code, quickly, frequently and in better alignment to requirements.
- Extensive experience with MySQL and SQL in general.
- Broad experience incorporating web apps with the services of Google Maps and MapQuest (Leaflet).
- Experience using cache strategies to boost response time and save resources.
- Extensive Experience using Subversion and Git as version control systems.
- Experience working in large team environments.
- Experience working with customers, analyzing their business model and taking translating their needs and requirements to software specs.
- Extensive Experience administering Linux servers in the cloud.
- Experience using Python to do Database data migration between different DBMS.
- Hands-on experience using Xcode to test and deploy iOS Apps and Android Apps on real iPhones, iPads and Android Phones to ensure Product Quality as well as the Android SDK using Cordova/PhoneGap and Ionic.
- Extensive knowledge in computer networking and Internet infrastructure (Cisco 1 and 2).
- Development of Web Services both REST and SOAP, as well as ample experience consuming them.
- Creative and full of ideas, using technologies and resources available to solve problems.
- Management and Leadership abilities, administrative skills and team player.
- Autodidactic, fast learner, passionate and hard working, capable of learning anything very fast on my own.

### **EDUCATION & QUALIFICATIONS:**

- Software Engineer: Bachelor in Computer Engineering with Honors.
- English 98%, Spanish 100%

### **TECHNICAL SKILLS:**

- **Operating System:** Linux (Ubuntu, Debian, Fedora, Mint), macOS/OS X and Windows 95-Windows 10.
- **DBMS :** SQL Server, Cassandra, MySQL, Apache Derby, MongoDB, Web SQL, PostgreSQL, SQLite.
- **Version control Tools:** Subversion, Git.

- **Web Development Technologies:** TypeScript, Angular 2+, D3.js, Google Maps, Leaflet, Bing Maps, MapQuest, HTML/HTML5, Sass, CSS/CSS3, PHP, JavaScript, ES6, jQuery, jQuery UI, jQuery Mobile, AngularJS, Bootstrap, Java, MongoDB, Node.js, YUI, MySQL, Python, REST, SOAP, XML, XSD, webERP, Heroku, UglifyJS, WAMP, LAMP, MAMP, MEAN.
- **Mobile Development Technologies:** Cordova, PhoneGap, Ionic, AngularJS, Angular 2
- **Application/Web Server:** Tomcat, Apache Web Server, Glassfish, Express (Node.js), Node.js http, Tornado Web Server.
- **Others:** webpack, phpMyAdmin, PouchDB, cPanel, Domain names administration (GoDaddy, Raptor), Ant, Maven, GIMP, JasperReports, RegExp, Babel, Browserify, Gulp, Wine, Fabric, Gnome, KDE, Cinnamon, Unity Ubuntu, Flash, Heroku and many more.

## **PROJECT EXPERIENCE:**

### ***Self-Employed Mobile/Web App Development***

***San Diego, CA***

***Senior UI Web Developer***

***June 2019 – Present***

Please check my website for all details: [www.rhinojosa.com](http://www.rhinojosa.com)

### ***Verizon***

***Dallas, TX / San Diego, CA (after project relocation)***

***Senior UI Web Developer***

***July 2016 – June 2019***

### **Project: Vision Zero**

**Environment:** Angular 2+, D3.js, Angular CLI, TypeScript, JavaScript, Leaflet, MapQuest, Google Maps, HTML/HTML5, CSS/CSS3, Flexbox.

**Description:** Architect, Lead Developer and Main Programmer of an Angular 2+ Web Vision Zero Charting Application capable of grouping and filtering important information and show it using D3.js in the following forms: Bar Chart, Grouped Bar Chart, Stacked Bar Chart, Area Chart, Line Chart, Stacked Line Chart, Scatter Plot Chart, Curved Line Chart, Pie Chart, Donut Chart, Box Plot Chart.

Additionally show Important Animated Map Information using Leaflet and Multiple Map Provides (Google Maps, MapQuest, etc).

### **Responsibilities:**

- Develop a Responsive Web App using the latest Web Technologies (Angular 2+) and provide a complete customizable solution for the Client.
- Write Custom Web Chart Components using D3.js for the most popular Chart Types: Lines/Bars/Area/Stacked Bars/Pies/PlotBox.
- Developed more than 90% of all the Front-end side of the Web App.
- Dockerize the Application for easy auto-deployments.
- Main Architect of the
- Follow the GitFlow Process.
- Hire and Train New Developers.

- Handle all the Angular CLI configuration in order to easily deploy and serve the application in the DEV / QA and PROD environments.
- Make sure that Angular 2+ best practices are being followed by the rest of the team.

### **Project: GIS**

**Environment:** Angular 2+, Google Maps, Leaflet.js, MapQuest, Bing Maps, TypeScript, JavaScript, webpack, HTML/HTML5, CSS/CSS3, Flexbox.

**Description:** Architect, Lead developer and Main Programmer of an Angular 2+ / Google Maps / MapQuest/ Bing Maps / Leaflet - Web Application capable of Advanced GIS Functionality and Custom Drawing Capabilities (Circles, Polygons, Polylines, Free Hand Polygons, Markers) as well as advanced Geocoding / Geolocation / Geometry / Map Places functionality. Additionally also developed a TypeScript MultiMap Provider Library Capable of all the above using Google Maps / MapQuest / Leaflet / Bing Maps.

### **Responsibilities:**

- Write 100% of all Front-end Code.
- Handle the State of thousand of Map Markers / Circles / Rectangles and Polygons as well as how they interact between them (what contains what).
- Integrate All Rest API Calls in order to handle CRUD Operations.
- Develop a 100% TypeScript Map Library in order to switch between Map Providers very easily.
- Handle all the webpack configuration in order to easily deploy and serve the application in the DEV / QA and PROD environments.
- Follow the GitFlow Process.

### **Project: Smart City**

**Environment:** AngularJS, Angular 2+, Google Maps, TypeScript, JavaScript, webpack, HTML/HTML5, CSS/CSS3, Flexbox.

**Description:** Lead Developer and Main Programmer of an Smart City Application capable of Showing information of `City Lights/Environmental/Digital Signage/Traffic Devices` in real time (using WebSockets) both in Google Maps and in a Web Interface using AngularJS/Angular 2+ and Firebase and REST APIs.

### **Responsibilities:**

- Refactor the Project's Code in order to comply with both AngularJS best practices.
- Rewrite from Scratch the Angular 2+ Version of the code.
- Integrate Rest API Calls in order to handle CRUD Operations.
- Integrate Firebase WebSocket Calls in order to handle 3-Way Data Binding.
- Make sure that John's Papa Angular Style Guide is being followed.
- Handle all the webpack configuration in order to easily deploy and serve the application in the DEV / QA and PROD environments.
- Make sure that AngularJS and Angular 2+ best practices are being followed by the rest of the team.

***Presidency Solutions  
Farmington Hills, MI, U.S.***

**Senior Android/iPhone App Developer**  
**July 2015 – June 2016**

**Project: AiM Inspect**

**Environment:** Ionic, PhoneGap, AngularJS, Cordova, Sass, HTML/HTML5, CSS/CSS3, jQuery, AngularJS, Bootstrap, Node.JS, JSON, AJAX, SQLite, Fabric, DOM, PostgreSQL, PouchDB.

**Description:** Lead developer and main programmer of a Vehicle Inspection App capable of running on Desktops and Mobile Web Browsers, as well as an Android/iPhone Phones by using one single codebase.

**Responsibilities:**

- Develop an App that runs seamlessly in Desktop browsers, mobile browsers and as native app for Android/iPhone using the same codebase.
- Developed all the Front-end side of the App.
- Testing of Cordova and PhoneGap Apps in Linux, Windows and OS X using real iPhones, iPads and Android Phones to ensure product quality.
- Usage of Git in order to create branches of new functionality.
- Make sure that the MVC pattern is followed correctly with AngularJS to ensure easy App integration and understanding for future new developers.
- Implemented Fabric Cordova/PhoneGap plugin.
- Research and Implement tons of AngularJS and JavaScript functionality for a Rich Front-End experience.
- Main Analyst, Designer and Developer of the whole App.
- Linux/Unix Command line daily usage for App Administration.
- Make use of directives, controllers, custom filters and services in order to follow best practices in AngularJS development.
- Usage of UI-Router to handle all App's states.
- Integrated CSS3 transitions for smooth App animations.
- Implemented JWT Auth.
- Usage of PouchDB in order to store all the App's Data so that the App can work offline.
- Developed an asynchronous routine capable of uploading as many pictures as we want in the background without locking the UI.
- User friendly Inline errors per each field that disappear as soon as they are resolved.
- Implemented Google Material UI using AngularJS and Web Technologies.
- App can switch tabs and delete elements by using swipe events.
- Created Git Pull Requests in order to merge branches into master after getting many approvals from other developers.
- Successfully Implemented the following Cordova/PhoneGap plugins: BarcodeScanner, Camera, Speech Recognition, PouchDB, SQLite, Cordova ZIP, Vibration, Music Controls, InAppBrowser, Crosswalk WebView Engine, Fabric and more.
- Usage of Sass in order to encapsulate styles per View and use extra programming features with CSS3.

**Anerso**  
**Monterrey, Nuevo Leon, Mexico**  
**Senior Web Developer**  
**January 2011 – June 2015**

**Project: Quantum4**

**Environment:** Java, PHP, MySQL, jQuery, jQuery UI, jQuery Mobile, JavaScript, JSON, HTML/HTML5, CSS/CSS3, Linux, Glassfish, NetBeans, XML, Subversion, Apache Web Server, Facebook Developers, AJAX, SQL Server, Tomcat, Hibernate.

**Description:** I was the lead developer in charge of migrating a digitization solution from Desktop to Web, making use of the best Web Technologies available and to make sure that coworkers contributed to the project as well as helping them technically.

**Responsibilities:**

- Front-end Design and Development for the user view and the administrator view with HTML5, CSS3, JavaScript, jQuery and jQuery UI, jQuery Mobile for Mobile version.
- Back-end Designing and Development for the user view and the administrator view with Java, PHP, Hibernate, MySQL.
- Make sure co workers contribute to the project as well as help them technically in all technologies and languages.
- Lock MySQL Database tables or rows as needed to avoid data incongruence.
- Cross browser compatibility with IE6+, Chrome, Chromium and Firefox.
- Full analyst, designer and developer of Mobile version.
- Analysis, Design and Development of Mobile version using jQuery and jQuery Mobile, reusing same Controllers and Model.
- Main Database analyst and designer, making sure standards are followed and the database stays normalized.
- Developer of DAO and DTO main utilities for communication with Hibernate using multiple RDBMS, including MySQL, SQL Server and Oracle.
- In charge of designing the Development environment as well as preparing it for new Developers (IDE, OS, Database, Web Server, Web App Server, Subversion) creating a bunch of commands to facilitate preparation of Demo, Production and Testing environments.
- Developed utilities to handle all data communications with AJAX and JSON that shows jQuery loading messages.
- Drag and Drop AJAX Multi-File Upload with jQuery, jQuery UI and PHP.
- New Version of Drag and Drop AJAX Multi-File Upload with AngularJS, Bootstrap and Java.
- Designed and Developed Email functionality that sends meeting requests, on Smartphones and Desktop Calendar managers, using the iCalendar format using jQuery, jQuery UI (Datepicker), CSS and the Clockpicker plugin.
- Database Administration using MySQL.
- Research tons of jQuery plugins for a Rich Front-End Presentation.
- Main Analyst, Designer and Developer of the whole System.
- Inclusion and configuration of Quercus to run PHP in Java to facilitate the usage of some jQuery UI Plugins.
- In charge of investigating new technologies and applying them on the project.
- Usage of UglifyJS to obfuscate and compress JavaScript code.
- Server Administrator using Linux and Amazon Web Services (AWS).
- Developed more than 80% of both Front-end and Back-end functionality.
- Managed most input validations using Regular Expressions with JavaScript and jQuery, using qTip2 for error, warning and success messages.

**SERVICIOS EMPRESARIALES INTEGRA S.A. DE C.V.**

**Monterrey, Nuevo Leon, Mexico**

**Senior Web Developer**

**January 2010 - January 2011**

**Project: FacturaSoft.**

**Environment:** Java, PHP, Glassfish, NetBeans, Linux, JSON, XML, XSD, XSLT, Subversion, Apache Web Server, MySQL, Apache Derby, HTML, CSS, JavaScript, Python, JSON, jQuery, jQuery UI, AJAX.

**Description:** Developed and maintained a Java Web Service and a MySQL database to create Digital Invoices and integrate the functionality with the popular Open Source Web-based System “webERP” developed the Front-end and Back-end customizations that clients ask in both the Web Service and webERP accordingly, all this in a Linux development and production environment using daily Bash and Bash Scripting for server administration and system updates.

**Responsibilities:**

- Designed and Developed SOAP Web Service in Java to create Mexican Digital Invoices according to government law.
- Designed and Developed administrator module using AJAX, jQuery, jQuery UI, HTML, CSS, PHP and Java.
- Attended meetings directly with clients to show progress and get new requirements.
- Front-end webERP customizations using JavaScript, PHP, HTML, CSS and jQuery.
- Back-end webERP customizations using PHP, Java and MySQL.
- Designed the application so that both webERP and the Web Service auto update once the client has a working Internet connection, using Linux commands and Subversion.
- Designed and Developed views that shows the client invoices using jqGrid, AJAX, CSS, JSON, jQuery, jQuery UI and HTML.
- MySQL Database Designer and administrator for the invoices module.
- MySQL Database changes to webERP to include invoice functionality in webERP.
- Server Admin on client Apache Web Servers and Glassfish Application Servers using only the command line (SSH) on Linux Servers (Debian).
- Application Designer and Developed most of the core functionality.

**PATIKNA**

**Monterrey, Nuevo Leon, Mexico**

**Web Developer**

**January 2009 – January 2010**

**Project: Movie Time.**

**Environment:** JavaScript, jQuery, PHP, AJAX, CSS, HTML, Linux, JSON, YUI, MySQL, XAMPP, Flash, phpMyAdmin.

**Description:** Developed and maintained Movie Rental Web Application using Apache Web Server, PHP, MySQL, Linux (Production and Development), HTML, CSS, YUI, JavaScript, JSON, jQuery and AJAX.

**Responsibilities:**

- Designed and developed Front-end and Back-end with PHP, JavaScript, HTML/HTML5 and CSS/CSS3, jQuery, jQuery UI, YUI, JSON and MySQL.
- Attend meetings directly with clients to show progress and get new requirements.
- MySQL Database Administration.
- Single Page Application using AJAX, JavaScript, jQuery, jQuery UI and YUI.