

# Ramesh Mahadevan

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## About Me

I am a Staff Engineer with strong architecture and design skills working for Ebay.

I am passionate about solving interesting problems and designing scalable applications. “Legos” are my design philosophy, building simple and modular applications is the key.

## Accomplishment

- Created a **Page Composer Framework** for Ebay Verticals
- Created and implemented a **HealthCare** solution that enables Clinics to track patients and the medications consumed
- Created and implemented a **HealthCare** solution that enables Clinics to track patients and digitize medical and hospitalization records
- Working knowledge of “OAuth” Specs and part of the Commerce Platform working group @ Ebay
- Implemented a **Device Detection** feature for Ebay
- Completed a customizable Task Management “iOS App – Tasky” with Swift <https://github.com/rameshrm/tasky>

## Work Experience

**Ebay**

**Software Engineer** [July 2012 – Now]

### **PAGE COMPOSER FRAMEWORK**

- Architected and created this Page Composer Framework, that enables to wire up Page Modules for a HTTP Request
- Enables to pick and choose modules based upon A/B Experimentation, Device Form-factors
- Implemented custom Data Transformation on the JSON data returned by the Restful Services.

### **DEVICE DETECTION LIBRARY aka UA Sniffer**

- Architected and implemented Device Detection Library.
- This library is a HTTP Filter, which intercepts HTTP Request User Agents and understands the capabilities of the device making a request.
- The library asserts the device capabilities and asserts the capabilities to the down stream web applications.
- Implemented a Fast LRU cache and Scavenger to clean unused Agents.
- This is used extensively in all the ebay.com web applications and the API services (to limit and filter the Response based upon the device).

## WEB RESOURCE BRIDGE

- Created a build time Web Resource (CSS, JS) aggregator
- Integrated the Web Resource Aggregator to upload to the CDN from the build steps.
- Integrated modern resource frameworks like ***browserfiy and amd*** modules to the Java based Web Resource Framework.

## CROSSDOMAIN-XHR [<https://github.com/ebay/crossdomain-xhr>]

- Implemented a “Shim” for browser based CORS Requests
- This library is purely a “Shim” in nature to patch the CORS requests with IFRAME Relay techniques for the browsers don’t have support for CORS

## STREAMS-EBAY [npm module]

- Designed a generic “Streaming Module” based of NodeJS Streaming Api
- This module exposes capabilities for client consuming applications to listen to Streaming Responses and Server Sent Events.

## **Satellite Healthcare**

2006 – July 2012

**Lead Software Engineer** December

### **Med-Tracker**

- Architected and Implemented - Med-Tracker a Clinical Application to track Medications by inventory and Consumed by Patients.
- Med-Tracker implements a smart way of managing the inventories by scanning the Medication NDC Codes
- Med-Tracker provides easier reporting of the available and consumed medications
- Implemented a Services Backend API w/C# Restful APIs and SqlServer Backend Storage.

### **SPIN MD MOBILE**

- Designed and Implemented an iOS Application for Clinical MDs
- The Mobile Application Enables Online and Offline Communication by the form of Custom Notifications btw Clinics and MDs
- Implemented a Services Backend Restful API w/C# and SqlServer DB
- Implemented a Synchronizing strategy with the Offline data
- Implemented a very basic / naïve OAUTH Implementation.

## Patient Document Imaging

- Document Imaging – Solves the problem of Physical records of Patients Hospitalization & Discharge records.
- Implemented a Streaming API which listens for the Faxes received from Hospitals and others.
- Used Bit2Tiff reader to transform incoming Fax TIFF to GIF
- Implemented a Workflow notification to the Application to notify received Faxes
- Provided ability to Tag a Document w/Page Ranges to the appropriate patients.
- Implemented features to Add Watermark Notes , to the tagged notes.

*Tagging and Notes features were inspired by the implementation of **EverNote***

## Technical Skills & Proficiency

- iOS
  - SWIFT
    - Worked with iOS HealthKIT
    - Worked with CoreData
- Microsoft Stack – Spent good amount of time w/.NET Stack
  - .NET
  - C#
  - ASPNET MVCs
  - SqlServer Databases
  - XAML
- Java Stack Spent decent amount of time w/Java
  - Java
  - Spring Frameworks
  - Maven
- Scripting Languages
  - NodeJS
  - JavaScript - Worked with some of the leading frameworks.  
GOOD at standard JavaScript

## Past Employments

<b>Motorola,</b> Schaumburg , IL	2003 –2006
<b>Mascon Global Limited</b> Chennai, India	2002 - 2003
<b>Meru Convergent Technologies</b> Chennai, India	2000 – 2002
<b>Ambathur Clothing Ltd.</b> Chennai, India	1997 – 2000

## Education

### **Masters in Computer Science**

1994 –

1997

BharathiDasan University, Trichy, India

### **Bachelors in Physics**

1991 – 1994

Madurai University, Madurai, India