**THIYAGARAJAN BALASUBRAMANIAM**

**CONTACT: +91-9500193386**

[btrinfy@gmail.com](mailto:btrinfy@gmail.com)

[Facebook Profile](https://www.facebook.com/bthiyagarajan)

[LinkedIn Profile](https://www.linkedin.com/in/thiyagab)

# Summary

* Head ‘R&D Interfaces for Mobile' having expertise in developing & publishing apps on Android,Blackberry,iOS & J2ME phones with around 10.6 years of professional experience.
* **Solution Architect for few of the India's Leading Mobile finance apps.**
* Expert in designing robust and standardized framework across all mobile OS including iOS,Android,BB, WP7,WP8 to increase development efficiency
* Complete knowledge on the App submission process on the Apple AppStore, Android & Windows Store.
* Guru in creating **Social Networking** apps integrating **Twitter/ Facebook** on mobile & websites.
* Experience in developing Enterprise Applications/Frameworks/Commercial Websites/Mobile Applications on **Windows/UNIX.**
* **Experience in designing the protocols and services for data exchange between mobile applications and the backend enterprise servers**
* Extensive work experience in **Java technologies**(J2EE, JSP, Servlets, Struts, JDBC), **Open Source Technologies** & **Web technologies** (NodeJS,MongoDB, CSS, JavaScript, HTML) & Google APIs
* Automated a complete release process from development to QA to deployment using continuous integration and test automation tools like Jenkins, Monkey Talk , etc..
* Expertise in relational database design & development, query tuning / optimization skills.
* Excellent knowledge and implementation experience on Amazon EC2 (Cloud Computing) and API tools.
* Strong background in object-oriented programming & concepts, **Data Structures & Design Patterns.**
* Working closely with product team/ clients, understanding requirements & provide training.
* Highly innovative, highly self motivated, Willingness to learn, Eagerness to perform, Strong Analytical skills, adapt to rapid changing technologies, out of box thinking are my personal traits.
* Very good team player with excellent interaction & verbal / written communication skills.

# Technical Skills

|  |  |
| --- | --- |
| Mobile apps expertise | Android,Blackberry & J2ME and designed framework for all OS |
| Android Dev Tools | Eclipse, ADT plugin, Interface Builder, Android Simulator |
| Programming Languages | Java, JSP, JavaScript, SQL, PL/SQL, C,C# |
| Internet Technologies | NodeJS,JQuery, AJAX, Struts, Servlets, JDBC, HTML, XML, DHTML,DWR, CSS |
| Database | Oracle, MYSQL, MongoDB,SQL Server, SQL Lite, MS Access |
| Scripting Languages | UNIX Shell Scripting, Perl Scripting |
| Application/ Web Servers | Apache, BEA Weblogic, Tomcat, Websphere |
| Java IDE | Eclipse, JDeveloper,NetBeans |
| RDBMS Tools | PLSQL Developer, SQL\*Plus, Toad, MySQL Query Browser |
| Creative Dev Tools | Adobe Photoshop, Gimp |
| Source Control | Microsoft Visual Source Safe, SubVersion, Git |
| Operating Systems | Windows (9X to Win 7), UNIX, Mac OS X, iPhone OS 2.0 to 4.2 |
| Continuous Integration tools | ANT, Maven, IVY, Hudson, Jenkins |

# Apps:

Solution Architect for few of India's Leading mobile financial apps in all platforms (iOS, Android and Windows) and the top apps are listed below,

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Downloads/Ratings | Play Store Link | App store |
| Kotak Bank | ~500,000 / 4.5 | http://goo.gl/8bFpje | http://goo.gl/fEx1RX |
| MyUniverse | ~1,000,000 / 3.8 | http://goo.gl/LorxD0 | http://goo.gl/EFczFM |
| NSE | ~500,000/ 4.2 | http://goo.gl/h2Yijj | http://goo.gl/b5kPPH |

Apart from the above popular apps, I have developed/designed/Architected few more apps (~25 apps) personally and also for my organization, which shall be discussed in person if required

# Tools, Framework and Process :

Developed framework for Finance domain across all mobile OS (Android, Blackberry, iOS, WP8)

The following libraries/Services are designed,

1. Data and Parser library
   1. Handles any connection protocol such as http, https, TLS,TCP
   2. Handles Storage, like offline caching, persistent storage, app cache.
   3. Handles any type of data like json, xml, csv, plain objects etc.
2. UI Library
   1. Custom Designed UI components and UI utilities.
   2. Designed Controllers and models in MVC pattern

3. Services

a. Config Service which handles the configuration data sync between the client framework and the backend

b. Ads Service : Handles the ad configuration in the client to be managed by a server

c. Reporting Service: Handles statistical and error reporting from the device

d. Push Service: Pushes data from the server through native libraries or TCP connection.

4. Value added Services:

Value added services includes third party libraries that are customized for our own needs. This includes QR code reader/generator; Location based Services, Social SDKs, etc..

Developed many tools and implemented best practices to improve development efficiency,

1. ClassGenerator tool : A cross platform class generator tool, creates class files from the schema defined for various services, It helps developers to reduce the boiler plate code written for client/server communication and maintain common standard across platforms

2. LabelGenerator : Generates labels for all platforms from a common google spreadsheet, so consistency would be maintained for label texts and messages across all platforms

Implemented continuous intergration tools with automation test frameworks like appium/selenium across all the platforms to reduce the burden on the developers and streamline the deployment/QA process.

# Android Expertise:

1. Expert level expertise on ALL views & view controllers in the Android SDKs. Have created apps with every element in Android UI library.
2. Created Navigation based apps, Tab Bar based apps, apps with table views, search bar, web views, Location & Maps based apps, Multitasking, Push & Local Notifications, etc.
3. Developed apps, which interact with APIs & parse the data response (both XML & JSON).
4. Handled synchronous & asynchronous web requests using Google Volley
5. Implemented lazy load for images – Asynchronous loading for smooth scrolling user experience.
6. Excellent knowledge on Protocols. Defined protocols as well.
7. Continuous integration with Jenkins and automated testing using frameworks like selenium,appium,calabash etc..
8. Integration with various social SDKs and ad platforms like admob, inmobi, etc.
9. Excellent knowledge of efficiency tools like findbugs, crash report tools, profilers
10. Build & tested Android Apps targeting multiple OS versions with different resolutions

# Social SDKs:

1. Integration of Facebook Graph API and Twitter on Android,iOS
2. Complete knowledge on Facebook Graph API and Twitter API, from posting to listing users, retrieving data etc..
3. Manage and configure apps both in facebook and twitter for various types of apps

# Certifications

* **Sun Certified Java Programmer with 96%**

# Achievements

1. Won both first and second prize in ‘ShipIt’ Day where a team will work on an idea and ship a product within 24 hours
   1. First Prize: ARMS (Automated Release Management System), which automates the whole process of building, sanity testing, deployment to customer server and managing the versions across different environments (UAT, DEV, Production) and across all OS (iOS, Android,Windows)
   2. Second Prize: ‘LOGLION’ , Parse and format the device and server side logs, so it would be easy for the testers and developers to debug. This product considerably reduces the developer’s headache in analyzing raw log data.
2. Received the TNS Star Award   for the best performance and innovation shown in the project
3. Received the Excellence in project execution, at Infosys level for the year 2005-06
4. Received the Best Managed Team for the Team, I had lead in offshore.
5. Semi-finalist in a DC wise Quality Quiz competition.
6. Received Best performer award twice in Aricent

### Project Details ( JAVA/J2EE)

#### Project #1: Equipment Distribution Optimization (EDO)

* Team size - 7
* Role - Developer
* Technology - Java Swings

This is a conversion project converting the existing Smalltalk code to Java. This project deals with the Equipment Distribution and Optimization of BNSF.

***Version Control:*** VSS, MKS

***Period***: Nov 25th 2004- Jan 19th 2007

***Contribution***:

* Have done the requirement analysis, Design, implementation and testing of various enhancement features in EDO
* Have done implementation and testing of many change requests.
* Involved in enhancements for the feature work in which I have prepared Design documents, Test Plan and some other deliverable documents.
* Gave field support to some critical issues.

#### Project #2: JRCEMS - Japan Radio Corporation, Japan

* Team size - 7
* Role - Module Lead, Configuration controller
* Technology - Java Swings,J2EE,PostgreSQL

JRCEMS is the element management system for the WiMax Base stations developed by JRC.

JRCEMS has following functionality of the FCAPS: Fault Management, Configuration Management, Performance Management and Security Management.

The application is built over Aricent's FlexNM framework.

JRCEMS uses SNMP in the southbound layer to communicate with the device

***Version Control:*** SVN

***Period*** *:* Jan 22 2007 – May 2010

***Contribution***:

* Requirement analysis, Design and implementation
* System testing and critical support at customer site (Japan) for five months.
* As a module lead, lead a team of 5 and helped in successful release of software and received repeated customer appreciation

#### 

#### Project #3: ISC, Cisco

* Team size - 50
* Role - Technical Lead, Configuration controller
* Technology - Java Swings,EJB,Struts,Oracle DB

ISC, **I**P **S**olution **C**entre is a comprehensive management solution which provides end-to-end management solutions for cisco routers

***Version Control:*** Clearcase

***Period*** *:* May 2010 – till now

***Contribution***:

* Gave a proposal for simple and robust architecture to replace the existing complex and old ISC architecture
* Lead a team of 5 to complete a feature enhancement in ISC

# Professional Experience:

Organization: **Market Simplified**, Chennai, India

Duration: From Jul 2011 - till date

Designation: Solution Architect

Group: Core Technology Group

Organization: **TechMahindra**, Chennai, India

Duration: From May 2010 till Jul’2011 (1 year and 2 months)

Designation: Team Leader

Group: Cisco

Organization: **Aricent Technologies**, Chennai, India

Duration: From January 2007 to May 2010 (3 years and 5 months)

Designation: Technical Leader

Group: DataCom

Organization: **Infosys Technologies**, Sholinganallur, Chennai.

Duration: From July 2004 to Jan 2007 (2 years and 6 months)

Designation: Software Engineer

Domain: Transport and Logistics

# Education:

**Bachelor of Engineering (Electronics & Communication Engineering) (2000-2004)**

*College of Engineering Guindy, Anna University, Chennai, India*