

## Srinivas Ram Kumar Ghandham

Sr. Software Engineer an IT professional with 15 years of professional experience in design and development of software, mainly being internet based business solutions, using Web UI/UX and Java technologies. A proven problem solver with a track record of successful delivery of software projects over the last 15 years.

**Current Experience (2-1/2 Years) :** Full-Stack Development, Pivotal Cloud Foundry, RabbitMQ  
**Web UI/UX:** ReactJS, Redux, Angular-4, JQuery, Typescript, Javascript, CSS3, HTML5, NodeJS, ExpressJS, Joi, Flexbox, React Native  
**Microservices:** Spring Boot, Java-8.  
**CICD:** Jenkins, GIT, Bitbucket  
**DB:** MariaDB, MongoDB, Mongoose

## Core Competencies

- Pivotal Cloud Foundry, Full Stack Development, Agile
- HTML, Javascript, CSS, JQuery, JQGrid, JSON, ReactJS, Angular-4 Bootstrap
- Java 8, Spring Boot Microservices, RabbitMQ, Redis, Hibernate, Spring, JPA. MYSQL, Ms Access
- Database Design, Oracle, MYSQL, MongoDB
- Object Oriented Design and Development
- Mule, Intalio, Apache Camel, Apache Spark
- Spring Boot Microservices, RabbitMQ, Redis, ReactJS, Angular4, Jenkins, Maven, MariaDB, Reactive Stack, (RXJava), Spring Cloud, JIRA, HPQC-ALM-tool, STS, Bitbucket, HeidiSQL, WINSOCP, SoapUI, Putty, BIRT Report, Postman
- Core Java, Scala, Dozer, Hazelcast
- Hibernate, Spring, EJB
- Servlet, JSP, Struts
- Web Services, Amazon WS (AWS)
- DB Architect (RDBMS Concepts)
- Oracle DB Developer / PL/SQL, MariaDB
- SQL Server
- Oracle Portal
- Oracle HTMLDB (Oracle Application Express)
- Business Objects, Cognos (ETL, Reporting)
- TOAD, MySQL-WorkBench, SQL-Developer, HeidiSQL
- Interwoven Worksite, Teamsite.
- Weblogic Portal

## Experience in DBS

**IRCP/IRAS (Inland Revenue Authorities of Singapore Cloud Production) - SG**

**Employer: DBS (DAH - II) – Hyderabad, India**

*AVP/Tech Lead (Feb 2017 to Till Date)*

**DBS Bank** is a multinational banking and financial services corporation headquartered in Marina Bay, Singapore. The company was known as The Development Bank of Singapore Limited, before the present name was adopted in July 2003 to reflect its changing role as a regional bank. The bank was set up by the Government of Singapore in July 1968 to take over the industrial financing activities from the Economic Development Board. Today, its branches numbering more than 100 can be found island-wide. DBS Bank is the largest bank in South East Asia by assets and among the larger banks in Asia

**IRAS:** The Inland Revenue Authority of Singapore (IRAS) is the main tax administrator to the Government. IRAS collects taxes that account for about 70% of the Government's Operating Revenue that supports the Government's economic and social programmes to achieve quality growth and an inclusive society. IRAS also represents the Government in tax treaty negotiations, drafts tax legislation and provides advice on property valuation to the Government.

**IRCP:** The business problem, is the existing system IRSP (*Inland Revenue Authorities of Singapore System Production*) is developed on mainframes system and DB2 serves fine since long time, but the problem is the existing system, is not customizable, and enhancement is almost not possible for adding new features, and requires more maintenance cost. To over

come this problem, new application is developed from scratch with full stack development, using latest technologies like Spring Boot, and Angular 4 for more interactive and new look and feel UI/UX Interface. The application will be running on PCF (Pivotal Cloud Foundry).

The application daily checks for incoming IRAS Files (These files are send by IRAS to DBS bank). The application picks up the IRAS file, validates the file. If it is a valid file, it loads all the records to the database. These records will be monitored for 90 days by the monitoring services (microservice).

**Day 1:** validates each record of IRAS (from the database) for valid customer and valid account. If validation fails, IRAS record will be rejected, if its valid record, appointment will be created, and appointment letter will be generated.

**Day 1 to Day 14:** If the amount is available in the account, the taxable amount will be earmarked. The process continues till day fourteen, and continues till day fourteen.

**Day 15 to Day 89:** If the tax amount is not settled, the tax amount earmarked will be deducted from the account. This will be continued till 89<sup>th</sup> day.

**Day 90:** Return file is generated and will be send to IRAS with details of status for each customer.

A user interface is also developed for creating appointments manually. Maker and Checker operations, Handling exceptional Appointments, manual releasing of appointments after settlements etc. Reports are also can be generated/downloaded from UI, like daily return report etc.

Environment: PCF (Pivotal Cloud Foundry), Spring-Boot rest API, Java-8, Python, Micro services, ReactJS, Angular4, RabbitMQ, MariaDB, MongoDB, SOAP webservices , HeidiSQL, Junits, Mockito, Spring, Putty, WINS CP. Dozer, GIT, Swagger, Jenkins (CICD), ELK, SOAP UI/Postman, Jasypt, Solr, Sonar, Chickstyle, Findbugs, Fortify, JIRA, HP ALM, Nexus IQ, Bitbucket, Nexus Repository.

Project Role: Team Lead / Full stack development, with the following responsibilities:

- Initial code setup for developing micro-services.
- Initial code setup for developing Angular, ReactJS applications.
- Configuration of PCF to install spring-boot/microservices jars
- Preparing POCs - Microservices with springboot, RabbitMQ, MariaDB config etc.
- Code development/review.
- CI/CD with Jenkins scripting.
- ELK, for logging, tracking and analysis
- Tracking Sonar, Fortify, and Nexus defects, and fixing.
- Project tracking.
- Preparing Status Report.
- Authorization, authentication with OAuth2
- Batch processing with Spring schedulers.
- Analyze code and identify root cause of the defect
- Change requests from Product Development to add new/changed content
- Identify impact areas of the CR
- Preparing POCs.
- Prepare developer test cases
- Testing defect fixes
- Preparing and executing Junit test cases, Spring boot tests, TestRestTemplate,
- WebMVCTest, DataJPATest
- Mocking and Spying with Mockito
- Implemented TTD, BDD with spring-boot test framework.

## **Experience at Virtusa**

### **GE (Transportation) – Loaders - USA**

**Employer: Virtus – Hyderabad, India**

*Tech Lead (May 2016 to Feb 2017)*

GE Transportation is a global technology leader and supplier to the railroad, *marine, drilling, wind and mining industries. GE provides freight and passenger locomotives, railway signaling and communications systems, information technology solutions, marine engines, motorized*

*drive systems for mining trucks and drills, high-quality replacement parts and value added services. Business Problem: GE Transportation manages lakhs of vehicles (Rails) in Mexico. The application manages the data of each vehicle, based on the Routes, Model, Fleet etc. The application also collects the information about each vehicle at scheduled time. Data will be collected through various devices and transferred to server through satellite, CELL towers, Devices etc., depending upon the location of the vehicle.*

The data from the devices, CELL towers or satellite are received in encoded HEX format. The received data is decoded based on the rules depending on the type of data and are saved to the database.

Environment: Core java, multi-threading, MQ-Messaging, Active-MQ, wMQ, Apache Camel, Jboss Developer Studio, Jboss Fuse, SQL Developer, Maven, Camel Transformers, EIPs, Junits, Spring, AWS (Amazon WS). Putty, WINSXP. Camel-Dozer, Camel-Hazelcast, Jboss Fuse, Rally, GIT

Project Role: Team Lead with the following responsibilities:

- Code development/review.
- Project tracking.
- Preparing Status Report.
- Analyze code and identify root cause of the defect
- Change requests from Product Development to add new/changed content
- Identify impact areas of the CR
- Preparing POCs for Camel Applications, AWS, Jboss Fuse etc.
- Prepare approach documents
- Preparing Data Flow Diagrams
- Preparing Sequence Diagrams
- Preparing usecase Diagrams
- Preparing Class Diagram.
- Creating Camel Routes for resolving integration problems
- Creating Fuse/Bundles and Features, deploy to Fuse Container.
- Testing the OSGI Applications in Jboss Fuse Standalone.
- Preparing the Fabric Containers, and Profiles in Jboss Fuse
- Configuration of AWS to install Dockers
- Installing JBoss Fuse in AWS
- Prepare developer test cases
- Code implementation according to the approved approach
- Testing defect fixes
- Preparing and executing Junit test cases

## **GE (Transportation) - iTools – USA**

**Employer: Virtus – Hyderabad, India**

Tech Lead (May 2015 to May 2016)

After collecting the vehicles data, at scheduled time, faults are generated from the data. For generated faults, the faults will undergo through the process based on the rules and recommendations are created. Recommendations are created based on the previous history for the rules applied. The generated Fault data, recommendations, and all the information related to the Vehicle will be saved in the database. Web/Application server generated the reports based on the request. Web/Application also has the option for creating rules so that based on the rule. User also can modify the rule if required. All the information like creating rules, modified rules are tracked by the application.

Developing the java programs (Core java with multi-threading, Caching etc.)

Developing the Single Page Application using the JQuery, validators, Backbone and handlebars, AngularJS, requiredJS etc.

Developing the using Hibernate, Spring, Jersey – REST based webservices (Can be accessed from Backbone), Oracle is used for data persistence.

Environment: Core java, multi-threading, Caching(EH-Cache), MQ-Messaging, Web Services, HTML-5, CSS/CSS-3, Javascript, JQuery, Validator, Backbone, Handlebars, Oracle 11g, Apache web server, Jboss 5 Server, ANT 1.8, Eclipse, Junit, Sql Developer, JIRA, Putty, Win-Scp, Unix, SCP, SSH, Oracle 10g.

Project Role: Team Lead with the following responsibilities:

- Code development/review.

- Project tracking.
- Preparing Status Report.
- Analyze code and identify root cause of the defect
- Change requests from Product Development to add new/changed content
- Identify impact areas of the CR
- Prepare approach documents
- Prepare developer test cases
- Code implementation according to the approved approach
- Testing defect fixes
- Preparing and executing Junit test cases

### **British Telecom, WLMS (White Label Managed services) - UK**

**Employer:** Virtusa – *Hyderabad, India*

Sr. Tech Lead (Apr 2014 to Apr 2015)

British Telecommunications plc. is the largest incumbent telecommunications provider in the UK.

#### Business Problem:

##### CPS (Carrier Pre Select)

CPS is a mechanism that allows end-users to select, in advance, alternative Communications Providers to carry their calls without having to dial a prefix or install any special equipment at their premises. The "selection" of the preferred provider is done automatically at point of entry (the local exchange) to the public voice network. Customers can choose type of calls to be carried (e.g. all national calls, etc.). Line rental is paid to BT in a separate bill.

##### LLU (Local Loop Unbundling)

LLU enables Communications Providers to install their equipment in BT exchanges or nearby to connect customer lines or local loops to the Communication Provider's own networks

It is a function that is well-defined, self-contained, and contractual and does not depend on the context or state of other services. Four basic services offered as part of Telecom are:

1. Line Rental
2. Voice
3. Data
4. IPTV

**Environment:** HTML, Javascript, JQuery, CSS, Java, JMockit, Spring, Hibernate, Dozer, Web Services (SOAP and REST) with CXF, My-SQL, Apache web server, Tomcat, ANT, MAVEN, Eclipse, Junit, My SQL Work Bench, JIRA, putty, Mule, Intalio, MongoDB, BIRT, SpringBatch, AngularJS, Bootstrap

Project Role: Sr. Tech Lead with the following responsibilities:

- Code review.
- Project tracking.
- Preparing Status Report.
- Analyze code and identify root cause of the defect
- Change requests from Product Development to add new/changed content
- Identify impact areas of the CR
- Prepare approach documents
- Prepare developer test cases
- Code implementation according to the approved approach
- Testing defect fixes
- Preparing and executing Junit test cases

**JPMC, GACH (Global automatic clearing house) - USA**

**Employer:** Virtusa – *Hyderabad, India*

Tech Lead (Mar 2011 to Mar 2014)

Business Problem: JPMAccess Global ACH is one of the JPMAccess cash online applications which is used by the customers to initiate Payroll and Vendor payments in 32 countries and 110+payment combinations. The application enables non-urgent, future valued payments transactions to be made using lower-cost, batch-oriented systems.

Type of transaction is typically used for corporate-to-corporate payments and collections such as

- Vendor Payments
- Payroll, Pension
- Living Expenses for Oil Prospectors on Location
- Fee Charges
- Utility Service Collections
- Funds Investor Services

Examples of this type of payment system includes BACS in the United Kingdom, CORE in France, etc.

Environment: HTML, JavaScript, JQuery, CSS, Struts 1.2, Oracle 10g, Apache web server, Weblogic 10.3, ANT 1.8, MAVEN, Eclipse, Junit, Sql Developer, Java, JMockit, Selenium, Jbehave, [JIRA](#), [Fish-eye](#), [Sonar](#)

Project Role: Team Lead with the following responsibilities:

- Code review.
- Project tracking.
- Preparing Status Report.
- Analyze code and identify root cause of the defect
- Change requests from Product Development to add new/changed content
- Identify impact areas of the CR
- Prepare approach documents
- Prepare developer test cases
- Code implementation according to the approved approach
- Testing defect fixes
- Preparing and executing Junit test cases
- Preparing and executing Jbehave/Selenium test cases

**Thomson Reuters, LifeSciences JPharm - USA**

**Employer:** Virtusa – *Hyderabad, India*

Tech Lead (December 2010 to Mar 2011)

Business Problem: JPharm is a swing based standalone application serves as an editorial tool for maintaining life sciences product categories. This application is used by Thomson editors in editing/publishing the content on different Life science entities: Drugs, Deals, Patents, Companies, Compounds, Trials etc. Workflow of the application includes Loading, Editing, Approving and publishing of various entities. This data is externally extracted and passed on to various other Thomson Reuters' suite of products.

Environment: EJB, Swings, XML, JBOSS 5, ANT 1.8

Project Role: Team Lead with the following responsibilities:

- Code review.
- Project tracking.
- Preparing Status Report.
- Analyze code and indentify root cause of the defect
- Change requests from Product Development to add new/changed content
- Identify impact areas of the CR
- Prepare approach documents
- Prepare developer test cases
- Code implementation according to the approved approach
- Testing defect fixes
- Documentation of Loaders

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### **Experience Previous to Virtusa**

#### **Tax Knowledgebase, General Electric – NY, USA**

**Employer:** Xtream IT Solutions Pvt. Ltd – *Hyderabad, India*

Sr. Software Engineer/Team Leader (from February 2010 to September 2010)

Business Problem: General Electric Company has come up with the requirement for professional services support for Tax related queries to be fulfilled for their clients. An intranet web application has been implemented to resolve total solution related to the tax based queries. The project has number of modules in which our team handled modules like, workbook (for managing the entire tax related question, answers, upload and download of multiple documents related to the questions depending up on the country tax rules.), wiki (Which has all the information like Tax rates, Filing Dates, Book Tax Differences etc. depending up on the country), Tax calculator (It can be used to calculate the tax depending up on the country's tax rules), User Administration (For managing the User Credential).

Environment: Struts 2, JQGrid, JQuery, HTML, CSS, Javascript, AJAX, JSON, java Servlets, JSP, Oracle, tomcat.

Project Role: Sr. Software Engineer/Team Leader

- Designing and developing the as per the requirement document.
- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, jQuery, CSS, XML and XSLT.
- Creating test classes.
- Reviewing the code developed the team members
- Integrating the code developed the team members.

#### **Rent a car, HERTZ. (On-Site) - Park Ridge, NJ, USA.**

**Employer:** Hallmark Global Technologies Inc. - *Delaware, USA.*

Java Front-end Developer (August 2007 - February 2010)

Business Problem: Enhancement for existing application as per the business needs. One of the modules in the application is Special offers, which played key role in the business. The module design requirement is to handle the business depending upon the location (dialect) wise, because this module is internet application and has to be accessed throughout the world. The admin (Business) user can easily able to develop the web pages and can assign the pages to particular zone (Location), delete the pages, modify the pages. Application refactoring is also one of the requirement which was been handled and archived performance of the site to 70%. Dashboard, Business Reports etc. are some of the requirements which are been handled.

Environment: Interwoven Teamsite, Java, EJB, Spring, Hibernate, JQuery, Prototype, JSP, AJAX, JSON, CSS, XML XSLT, Websphere Application Server, DB2



Project Role: Design and development

- Designing and developing the application as per the requirement by the client.
- Reviewing the code.
- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, jQuery, CSS, XML and XSLT
- Testing the code.
- Updating the interwoven template file and testing and publishing

**Content Management System, GENPACT – Hyderabad, India**

**Employer:** SQLStar International Limited / Genpact – *Hyderabad, India*

Java-J2EE Developer (August 2005 – July 2007)

Business Problem: Creating business related applications as per the CoEs requirement. Developing applications based on homogenous and heterogeneous environment. Using Interwoven WorksiteMP to handle content management, and workflows and customizing as per the customer requirement.

Environment: WebLogic Application Server, Oracle 9i, Java, worksiteMP, HTMLDB (Oracle Application Express), EJB, Weblogic Portal, Oracle Portal, Oracle AQ.

Project Role: Design and Development

- Customer Interaction
- Creating requirement documents
- Designing and development
- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Oracle Portal
- Business Objects, Cognos
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, and CSS.
- Creating content and work flows using Interwoven worksiteMP.
- Testing the code.
- Deploying to production server

**eRMA MSS (Material Specification Sheet) Prowess , New View, USA**

**Employer:** Surpac Minex – *Hyderabad, India*

Sr. Software Engineer (December 2004 - May 2005)

Business Problem: This project is related to the development of workflows on various scenarios depending on the requirement. It has the features like Escalations, Reminders, Alerts, and Notifications etc.

Environment: Oracle 9i, MS SQL Server, Crystal Reports 11, Java, Servlets, Jsp, Tomcat, JBoss.

Project Role: Developer

- Coding and Developing as per the requirement document
- Reviewing
- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, and CSS
- Testing
- Integrating
- deploying

**Focus – MCS (Mobile Computing System), Brisbane Water, Australia**

**Employer:** Surpac Minex – *Hyderabad, India*

Software Engineer (July 2004 – December 2004)

Business Problem: Mobile computing System improves improvise efficiency and user mobile solution the intel mobile technology. The e-Wise mobile solution

enables field officers to enter data on handhelds through a user friendly graphical front-end with built-in business logic, using familiar drop-down menus and touch screens. When the officer returns to home base, the handheld data is synchronized and integrated with the City of Melbourne's back-office Oracle database system using software developed by e-Wise. Key areas identified where savings can be achieved using the mobile solution include reduced data logging and back office administration time Improved data accuracy and efficiency Standardised reporting I improved job satisfaction

Environment: HTML, Java Script, Java, Servlets, Jsp, JUnit JavaScript, Web Services (SOAP), WSDL, XML, DAO, Spring, Hibernate, ORACLE 9i, MS SQL SERVER 2000, Jetty, Tomcat

Project Role: Developer

- Coding and Developing as per the requirement document
- Reviewing
- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, and CSS
- Testing
- Integrating
- deploying

**Focus – AMS (Asset Management System),  
Barwon WaterYVW (Yarra Vally Water), Australia**

**Employer:** Surpac Minex – *Hyderabad, India*

Software Engineer (April 2004 – June 2004)

Business Problem: FOCUS (field operations case utility system) automates the flow of information from front office call centres to field operations staff, resulting in remarkable productivity improvements to the efficiency and bottom-line of enterprises. FOCUS has unique features not found in other enterprise service request and despatching systems, including Both Microsoft .Net and Java J2EE compliance; An architecture designed to handle high volume transactions; and Ability to use multiple transmission mediums for communications.

Environment: HTML, Java Script, Java, Servlets, Jsp, JUnit JavaScript, Web Services (SOAP), WSDL, XML, DAO, Spring, Hibernate, ORACLE 9i, MS SQL SERVER 2000, Jetty, Tomcat.

Project Role: Developer

- Coding and Developing as per the requirement document
- Reviewing
- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, and CSS
- Testing
- Integrating
- deploying

**REHAB PLANNER, Quadra Systems, Inc., CA USA**

**Employer:** End Of The Night Creations – *Hyderabad, India*

**Software Engineer** (February 2004 to March 2004)

Business Problem: Dedicated to provide Healthcare professionals in the Rehab / LTC sector with comprehensive Internet based tools in planning, scheduling, record keeping and reporting. These Mission Critical solutions allow therapists and care providers greater flexibility and efficiency in performing these ancillary duties, thereby allowing them to spend more quality time with patients. For facility or care provider managers, Quadra System Products offer unique solutions to labor tracking, billing and facility utilization. Don't be tied down to stand alone software



programs that are hardware & operating system dependent, time consuming to upgrade and costly to put on multiple computers

Environment: HTML, Java Script, Servlets, Jsp, JavaScript, ORACLE 8i, Tomcat, Resin Server, JavaBeans, JSP Pages, Servlets, JUnit

Project Role: **Software Engineer**

- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript and CSS
- creating JavaBeans
- creating JSP Pages
- creating Servlets
- creating JUnit

### **SAWS, Coast Spas Service, Canada**

**Employer:** End Of The Night Creations – *Hyderabad, India*

**Software Engineer** (December 2003 to February 2004)

Business Problem: A Service Request is placed in the system when the Customer calls in and reports a problem. The location of the Customer is either pulled in from the existing records or is entered in. The Service Request will now contain the info about the Customer and their location, the make, model and series of the Spa, and the problem with the Spa during the course of the day, multiple service requests from multiple customers will be received and added to the system. A Service Technician is employed by the Dealer/Store to visit the Customer at their location, figure out what the problem is with the Spa and fix/repair/correct the reported problem. Once the repair is done, the parts that have been used in the repair or replaced are entered into the Service Request. The amounts for the parts are then calculated from the values in the database. The labor charges are determined from the Repair Item times and are calculated based on the pre-configured labor rates. Once the parts and labor have been determined, the Service Request is updated with this info and the total amount including the taxes and other charges is calculated. If the total goes over a pre-set limit, a Pre-Approval is auto-generated

Environment: HTML, Java Script, Servlets, Jsp, JavaScript, ORACLE 8i, Tomcat, Resin Server, JavaBeans, JSP Pages, Servlets, JUnit

Project Role: **Software Engineer**

- Writing Triggers, Procedures, Functions, Packages, PL/SQL Programming.
- Creating the java classes.
- Creating the HTML, JSP Pages, javascript, and CSS
- creating JavaBeans
- creating JSP Pages
- creating Servlets
- creating JUnit

### **Education**

- M.Tech. (Eng) in Information Technology and passed with First Class, Punjabi University, Patiala 2003
- B.E. (Eng), Osmania University, Hyderabad

### **Achievements & Certifications**

- Advanced Diploma in Software Export Technology, ASET (Aptech)