Profile

Steven Marcel Fernandes is an experienced Software Engineer with around fourteen years of experience in design & implementation of Java/J2EE enterprise applications. He has domain experience in Telecom, Insurance, Finance, Inventory and manufacturing.

Industry Experience

* Telecom
* Insurance
* Inventory
* Finance
* Manufacturing

Skills & Competencies

* Software development
* Analysis & scoping of Requirements
* Design of Module/UseCases
* Team Leading
* Java
* J2EE (JSP,Servlets,EJB,JMS,JPA)
* WebServices
* BPMS - Gentran Integration Suite(GIS), Weblogic Integration
* Business Rule Engine - ILOG
* PLSQL , Oracle, SQLServer
* IText, Apache POI,FOP
* Weblogic, Tomcat, JBoss Server
* Product Catalogue Manager(Convergys)
* Spring , Hibernate
* Internet of Things (Raspberry PI, Arduino, NodeMCU , Sensors,Activators)

Career Summary

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| --- | --- |
| Feb 2007 to till date | CGI (Logica) Bangalore India |
| Mar 2004 to Feb 2007 | Synchronous Technologies (Wisor Telecom)  Bangalore India |
| Oct 2003 to Feb 2004 | Pinakin Software Bangalore India |

Career History

**Customer Centric Platform(CCP) – Telecom Provider (UK)**

Duration: June 2019 till present

Role: SME

Ecomm application serves as the key online ordering channel for different product lines such as Broadband, PSTN, Mobile, TV, BT Sports, Devices, Converged products. It supports L2C processes including pre-sales, product configuration, checkout and post sales for these product lines. The Ecomm order journeys can be executed by different types of users/agents/partners

* Currently involved in understanding/transition phase of the existing design/architecture/process.

**Technologies used:** Java,Weblogic server, OFBiz Framework, Oracle, Git

*Garbage Monitoring System – Govt Agency (UK)*

Duration: July 2019 till present

This project IOT Garbage Monitoring system is a very innovative system which will help to keep the cities clean. This system monitors the garbage bins in the city and informs about the level of garbage collected in the garbage bins via a web page. For this the system uses sensors placed over the bins to detect the garbage level. The system puts on the buzzer when the level of garbage collected crosses the set limit. The sensor data is sent to the monitoring platform via the IOT gateway where the bins are monitored.

* Was involved in the architecture, design, implementation.
* Done peer code reviews and assisted in integration of upstream & downstream systems

**Technologies/Tools used:**

* Hardware: ESP8266 Wi-Fi Module, Raspberry Pi, Sensor, Buzzer, LED
* Software: C Progamming, Python, Arduino Compiler, MQTT, Angular, NodeJS, MongoDB

*Message Broker – Bell Canada*

Duration: Oct 2018 – Apr 2019

Role: SME

The Message Broker acts a medium of transporting messages from one messaging protocol to other. This is developed on top of spring Framework and it works on the publish/subscribe model. There are Spring listeners/Transmitters implemented/configured as part of this framework. Currently it supports 3 messaging protocols JMS/MQ/Kafka.

* Was involved in the architecture, design & implementation & Unit Testing of the Framework.
* Done peer code reviews and assisted in integration of upstream & downstream systems.

**Technologies used:** Weblogic 12c server, Kafka,Spring ,Java 1.7

*Mobility Transformation Layer – Bell Canada*

Duration: Mar 2017 – Sep 2018

Role: Lead System Analyst

The Transformation Layer acts as a provisioning gateway for SIM provisioning with upstream interfaces (SIMS and Jasper) and SOM (OSM), it receives provisioning requests from SIMS and Jasper with different formats and convert it into the SOM Service order format and send it to the SOM (OSM) via JMS. And return the response to the upstream system based on the SOM (OSM) response.

* Was involved in the design (Java & Database), implementation & Unit Testing of CFS Framework.
* Done peer code reviews and assisted in integration of upstream & downstream systems.
* Assisted team to deliver use cases as per the scheduled plan.

**Technologies used:** Weblogic 12c server, Java 1.7

*SDN/NFV (10/2017 – Present)*

Duration: Oct 2017 till Mar 2018

Role: Lead System Analyst

SDN/NFV is becoming a key technology for telecommunication industry globally.

Ciena’s Blue Planet architecture provides a cornerstone in the Lifecycle Service Orchestration (LSO) of SDN/NFV services, delivering significant value-add in the evolution of the service provider OSS/BSS

**Key Features**

* Software-Defined WAN (SD-WAN) to deliver Virtual Routing & Forwarding, Dynamic multi-path routing, Bandwidth on demand, WAN Acceleration, Firewalling etc. by leveraging software defined WAN-Edge-Router and associated virtual components.
* E2E Service Management & Orchestration to provision/configure/monitor the SD-WAN service.
* Introduce and use virtual Firewall

1. Virtual Firewall(VNF) deployment via Catalogue based onboarding process.
2. Create service chain which includes Firewall-VNF chained within SD-WAN service.
3. Analytics feedback to show the activity on Firewall.

**Involvment**

* Was involved in the creation and onboarding of Service Templates defined using Tosca Modelling
* Was involved in the setting up of the DevOps Blueplanet environment

**Technologies used:** Blueplanet Orchestration, Tosca Modelling, Python programming.

*OSM Service Order Transformation (SOT) – Bell Canada*

Duration: Jan 2016 till Feb 2017

Role: Lead System Analyst

The intent of this project is to decommission the ISAAC application, and parts of it will be migrated into the SOT application. New modules will be added to the SO Transformation in this project. The new modules will handle the data flow, interfacing with MCCDS (MainFrame CICS & IMS), OFSE, USODS & OSM in order to transform from the mainframe language into XML. This flow is for the order provisioning for large business Bell Canada customers.

* Was involved in the design (Java & Database), implementation & Unit Testing of CICS, IMS Modules and handled a team of 4 members.
* Was involved in the setting up of SIT/UAT Testing Environments.
* Done peer code reviews and assisted in integration of upstream & downstream systems.
* Assisted team to deliver use cases as per the scheduled plan.

**Technologies used:**

Weblogic 12c server, Java 1.7, EJB 3.1, JPA, Mockito/PowerMockito, Unix.

**Skills and experience gained:** Java Integration with Mainframe Systems.

*OFS – Order Fulfilment System – Bell Canada*

Duration: Jan 2014 till Dec 2015

Role: Lead System Analyst

OFS enables the Service Provisioning and activation of Local Number Portability for Port In, Winback, Port out, Pair Bonding etc in a mechanized way. It receives and filters candidates for LNP, retains knowledge of them, purges when required and manages the activation of each task required to complete the order.

* Was involved in the design & implementation of TAP, BTCV Modules & Activation/Post Activation Kickout Reports.
* Prepared Detail design documents and done peer code reviews.
* Assisted team to deliver use cases as per the scheduled plan.

**Technologies used**: Weblogic Integration BPMS, Weblogic 10x server, Java 1.6, Unix.

**Skills and experience gained:** Domain Knowledge in LNP & Bell Telecom.

*Harlequins – British Telecom UK*

Harlequins is a CRM application that helps the division of BT Group, responsible for the wholesale leasing of PSTN lines, broadband services through ADSL/FTTH and other telephony services to corporate/retail customers. The Harlequins application comprises of both the Order Placement & provisioning of PSTN lines, Broadband Services. The overall Harlequins programme will be transitioning and transforming their existing OSS.

* Worked on WLR3, Product Catalogue, Inventory, CMC, Modules
* and handled a team of 4 to 5 members.
* Was involved in the designing implementation & integrating of WLR3, Broadband (ADSL, FTTH), Inventory, CMC Portal, Product Catalogue modules.
* Assisted team to deliver use cases as per the scheduled plan.
* Done code reviews and assisted in integration of different modules.

**Technologies used:** Java, JSP, Spring, Spring WebFlow, Hibernate, SQL Server, WebServices, Tomcat.

**Skills and experience gained:** Domain Knowledge in WLR3 & UK Telecom, Product Catalogue (PCM).

*TNT Umbrella – TNT UK*

Duration: Sep 2009 Apr 2010

Role: IT Consultant

TNT Umbrellais an application designed to support the business processes of TNT Post DDM. It ensures that your documents, parcels and freight are delivered safely through our door to door integrated air and road networks. These processes encompass the sales, planning, preparation and execution of the distribution of door drop media to households in the UK or, in some cases, outside of the UK.

**Responsibilities**

* Worked on Application Performance Improvement.
* Worked on development of PDF & Excel Reports using IText, Apache POI.

**Technologies used:** JBoss, Java, JSP, Servlets, IText, Apache POI, Hibernate, Oracle, JMeter, BadBoy.

*VNAB – Netherlands*

Duration: Apr 2009 to Aug 2009

Role: IT Consultant

VNAB offers its members, the possibility to join forces to insure industrial and commercial risks as effective and efficient as possible. The VNAB presents itself as the leading organisation in the Dutch insurance market for industrial and commercial risks. VNAB is a project which would help its members with modern and efficient infrastructure for direct communication and on-line handling within the co-insurance market. VNAB wants to do this with the aid of an electronic market place where brokers, insurers and expert appraisal desks can exchange, modify data between each other concerning policies (placement), damages (claims) and financial set-off (clearing).

Responsibilities

* Prepared design documents validating the business requirements.
* Worked on development of PDF Reports using FOP.

**Technologies used:** Java, JSP, FOP, XSLT, XML

*TuneMoney - Malaysia*

Duration: Feb 2007 to Apr 2009

Role: IT Consultant

TuneMoney is a comprehensive financial services business portal that offers to purchase financial products online in the following areas namely Unit Trust, Prepaid Card and Insurance.

Responsibilities

* Prepared detailed design documents for the insurance module using Enterprise architect by validating the business requirement.
* Assisted team to deliver use cases as per the scheduled plan.
* Worked along with GIS consultant from Sterling Commerce and was extensively involved in development & R&D activity on developing new frameworks & Services using BPML within Gentran Integration Suite.
* Reviewed Design & Code for Business Components developed within Gentran Integration Suite (BPMS).

**Technologies used:** BPMS (Gentran Integration Suite), Jetty Server, Java, JSP, Servlets, Struts, BPML, FOP, XSLT, XML, FTP, SFTP, spring, SQLServer.

*Web Virtual Front Office (VFO) -* Telcordia USA

Duration: Apr 2005 to Jan 2007

Role: Senior Developer

The Web Virtual Front Office (VFO) is a Order Management System which provides retail telecom service providers with a mechanized way to create, validate, update and track and transmit Orders, perform preorder inquiries thus enabling secure and efficient business interactions.

Responsibilities

* Was involved in providing detailed design documents for the LSR/ASR Order/PreOrder , ASR Receive Modules using Magic draw.
* Developed the Web services required for receiving Orders from third party Systems and for CLEC domain configuration. Web services calls has been built by using Apache Axis.
* Extensive use of XML,XSLT,XSD for transformation of xml to different formats and use of SAX and DOM parsers for parsing XML documents.
* GUI Framework was developed for rendering forms by parsing XSD & XML’s.
* ILOG Business Rule Engine was used for validation of form fields.

**Technologies used:** Java, JSP, Servlets, EJB, JMS, XML, XSL,

Oracle, Weblogic, Struts, Webservices

**Business Rules Management System (ILOG)** *-* **Telcordia USA**

Duration: Mar 2004 to Mar 2005

Role: Senior Developer

Wisor’s Business Rule Engine, implements the business rules for each Telecom Provider(ILEC) that performs the validation and errors the order back to the back office system for correction.

Responsibilities

* Analysing and scoping the client’s requirements.
* Design and Develop Business Rules, Rule Flows,
* Systematic generation of Rule Services.
* Was involved in extensive testing – Unit and Integration Testing.
* Was involved in the design and development of Web Based ILOG
* Rules Entry.

**Technologies used:** ILOG, J2EE, Servlets, Oracle, Weblogic.

*Production Management and Planning System -* Nikkei Panel Systems Ltd, JAPAN

Duration: Mar 2004 to Mar 2005

Role: Developer

Nikkei Panel System is reinventing the whole of manufacturing process to ensure a customer

order could be tracked from its originator till the panel system is shipped and installed at

customer location. The new production management and planning system ensure the entire

chain. i.e. OrderManagement to manufacturing to distribution to installation is covered.

Responsibilities

* Involved in development of Front End GUI using AppWorks
* that communicates with remote interface (EJB) and connects to Oracle through JDBC for data management.
* Involved in development of server side components.
* Was involved in extensive testing – Unit and Integration testing.
* Technologies Used: Java, JSP, Servlets, EJB, Oracle, Weblogic.

Skills & Experience

Business Skills

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| Skills | Experience |
| Software development | 14 years |
| Team Leading | 4 years |
| Analysis & Design | 5 years |

IT Skills

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| --- | --- |
| Skills | Experience |
| Java | 14 years |
| Servlets, JSP, Struts | 5 years |
| EJB | 4 years |
| Java Script ,AJAX,HTML,JSF | 3 years |
| XML,XSD,XSLT | 3 years |
| WebServices – Soap  Spring  Hibernate | 4 years  4 years  4 years |
| PLSQL,Oracle, SQL server | 4 years |
| ILOG | 1 years |
| BPMS Gentran Integration Suite(GIS)  Weblogic Integration Tool | 2 years  2 years |
| UML | 3 years |
| Seam, IText, Apache POI, FOP | 1 years |
| Weblogic, Tomcat, Jetty Servers | 3 years |
| JBoss Server | 1 years |
| Product Catalogue Manager(Convergys) | 1 years |
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Languages

|  |  |
| --- | --- |
| English | Fluent |

Qualifications / Affiliations

B.E. in Electronics Engineering, Bangalore University.