

Subin K Soman

Resume

Summary

- Having over 3+ years of total IT experience in core java Applications especially onto the telecom domain
- Strong experience in core java Functional roles.
- Strong experience in java multi threaded concepts.
- Experience in telecom protocols like SMPP,CIMD2 and DIAMETER.
- Experience in Spring,vaadin,jsp,html and java script
- Experience in python Scripting with Pandas and NumPy (the most powerful and flexible open source data analysis / manipulation tool available in any language.)
- Strong experience in MySQL , Oracle queries and Hibernate Query Language.
- Strong experience in Pentaho spoon
- Strong logical skills to derive concrete software solution
- Experience in analysis, coding and testing of the deliverable.
- Analytic thinker that consistently resolves ongoing issues or defects.

Technical skills

Operating Systems	Gnu/Linux, Windows	Programming Languages	Java
Databases	Oracle, MySQL	Development Tools	Eclipse, Pentaho ETL
Frame Works	Spring ,Liferay,vaadin	Scripting	Python, shell script ,Latex

Experience

June:2013– Present **Software Engineer**, SIX DEE TECHNOLOGIES, Bangalore.

Devaloped components for telecom service operators and creates new revenue stream for operators through innovative services. Its products are running on the major networks like Vodafone,Aircel,Airtel,Tata Telecom etc. and also International operators likeZain(Nigeria), EVN Telecom(Vietnam), Nawras (Oman) ,Omantel(Oman),MTN(Cameroon),Oreedoo Maldives etc.

Professional Projects Details

ESME.

ESME is an external application that connects to an SMSC to engage in the sending and/or receiving of SMS messages. ESME is essentially one of these but without all the wireless aspects; i.e. it is connected via TCP/IP, X.25 or similar. Basically, anytime a mobile user sends or receives a message where the other party was not another real mobile user, it is likely that the other sender/receiver is an ESME. SMSC uses protocols such as SMPP, UCP, OIS, CIMD, SMCI all of which denote the concept of an ESME connecting to an SMSC.

Responsibilities:

- Development, Maintenance and implementation on Production for ESME supporting CIMD and SMPP protocols
- Unit/Load Testing

Diameter.

Java implementation of the Diameter standard for Authentication, Authorization, and Accounting (AAA). Implementing the Base Protocol as well as some of the most important and widely used applications, RestComm Diameter allows a fast development of IMS components, such as Application Server (AS), Home Subscriber Server (HSS), Call Session Control Function (CSCF), Subscriber Location Function (SLF), etc. Featuring an extensible architecture to provide support for new applications, as well as to adapt the core functionalities of the stack to a fully customized solution.

The supported applications includes Base, Credit-Control Application, Ro (Online Charging), Rf (Offline Charging), Sh, Gx, Cx/Dx, Gq', S6a and many more. It also features an extensible architecture that allows additional Diameter application modules to be plugged in.

Responsibilities

- Member of the development team of the Diameter.
- Performance tuning
- Unit Testing/Load Testing
- Maintenance and Implementation on Production

MCA.

Missed Call Alert (MCA) is a service that allows the users to retrieve their missed call details. 6d's Missed Call Alerts service is a solution for notifying mobile users about their missed calls, and subsequently informing the availability of the subscriber to the caller, thereby encouraging them to make return calls.

MCA service can send notification to the called person's mobile phone in following scenarios:

- mobile phone is unreachable or switched off
- mobile phone is busy
- no reply

Operator can offer MCA service to subscribers as a

- Subscription based services
- Non-subscription based services
- Default service

MCA Notification can be sent via

- SMS
- Out dialing
- Called party available notification

Responsibilities

- Member of the development team of the MCA.
- Performance tuning for the large amount of data
- Unit Testing/Load Testing
- Maintenance and Implementation on Production

Clients

- Nokia Siemens Networks (Operator : ZAIN,BSNL,)

UMS.

One source of revenue loss for operators is due to non-maturity of calls in the network. The typical scenarios are subscriber in a non-coverage area, switched-off condition or busy on another call.

Operators need to earn revenues from already stabilized voice channel by plugging such gaps and stimulating call completion.

The objective of 6d's UMS is to enhance call completion for both fixed and mobile networks, efficiently meeting the increased network traffic. Call completion gets enhanced especially for calls that would otherwise be lost.

Solution Highlights include

- Seamless access of services over voice/video/fax/e-mail
- Personalized mail-box access, storage and services for subscribers irrespective of access channels
- Flexibility of add on MCA services to the subscribers
- Individual control on message storage based on each channel

Responsibilities:

- Design & Development of the Mail Tracker Application for doing the Personalized mail-box access, storage and services for subscribers irrespective of access channels
- Design and Development of Different services associated with voice/video/fax/e-mail
- Unit Testing /Load Testing
- Participated in Code reviews and Code Optimization.
- Maintenance and Implementation on Production

PROFILE-MANAGER.

Profile Manager has the ability to support centralized data which unites all subscriber information into a universal view of demographic and preference usage information. Compiling subscriber usage information (such as frequency of calls, VAS usage, interests, locations called to or from and monthly airtime usage) to target customers when marketing a carrier's product and service offerings.

Profile manager maintains each subscriber's profile. Profiles are created by processing CDRs obtained from various network nodes like prepaid billing, postpaid billing and other VAS systems etc. Multiple parameters from all CDRs are captured to create the subscriber profile. Rules are applied to segment the customers under the criteria defined by the Rule Engine.

Key Features of the solution

- Data Collection : CDR feeds from external network elements & third-party systems
- Data Interpretation & Analysis : Analyzing disparate data from multiple access points in real time.
- Rules engine : Rule definitions/creation as per marketing needs for automated segmentation. Business process designer supports personalized workflow creation by GUI-based drag and drop options.
- Profiling and segmentation : Behavioral, demographics, RFM segmentation
- Subscriber data Model creation : personalized data model creation
- Support for single view/access API's to the external entities of the 3rd party systems to get or retrieve the targeted profile data

Benefits of the Solution

- Profile manager system can have custom-built profiles of mobile subscribers for promotions and marketing any new services and products.
- Mobile advertisements can be targeted to specific customers resulting in greater success and more revenue.
- Accurate user profiling and segmentation based on predefined rules
- Behavioral pattern of the subscriber is captured for the various services provided by the mobile operator
- Operator can launch new services to target specific customer group/profile.
- Introduction of more personalized next generation business models

Responsibilities:

- Design and Development of the complete module.
- Unit Testing/Load Testing

Education

- Bachelors degree in *Computer Science and Engineering* from College of Engineering Munnar
- Diploma in *Computer hardware maintenance* from model poly technical college Painavu
- SSLC completed with 80 %marks

Personal Details

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Current-CTC	6.8Lakh	Exp-CTC	10.0Lakh
Notice Period	60Days	PassportNo	-

Declaration

- I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Banglore

Subin K Soman