**Chandra S C**

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**SUMMARY:**

* Hands on experience in developing web applications using Java/J2EE Technologies and spring framework.
* Experience on Webservices(Rest) and Apache Tomcat web server.
* Involved in all the phases of the software development life cycle such as requirement analysis, design, development, testing and implementation(Agile).
* Hand-on experience in using latest build tools like Maven and Gradle.
* Worked with logging framework logback.
* Worked on performance related issues using Jprofiler, JMeter.
* Involved in developing Recommendation engine from the scratch using Drools and Redis in-memory database for recommending apps/videos/news to huawei mobiles.
* Good knowledge on java design patterns.
* Have knowledge about Continuous Integration (CI). Used Huawei developed CI tool in all the projects worked.
* Experience in solving code quality issues reported by tools like Findbugs, PMD, Check style, source monitor, Fortify and coverity.



**TECHNICAL HIGHLIGHTS**

* **Programming Languages**: Java
* **J2EE Frameworks:** Spring Core/MVC, Basics Hibernate
* **Web Technologies:** Servlets, JSP, XML
* **Databases:** Oracle, MySQL, Redis
* **Software Concepts:** Design patterns
* **Web / Application Server:** Apache Tomcat 8
* **IDE**: Eclipse
* **Version Control:** SVN, GIT
* **Build Tools:** Apache Ant, Apache Maven, Gradle
* **Artifacts Repository Manager:** Sonatype Nexus
* **Business Rule Management system:** Drools
* **Code Quality tools:** HP Fortify, coverity, Findbug, PMD, Source monitor, CodePro Analytix



**WORK EXPERIENCE:**

1. **Project Name: Data Management Platform (DMP)**

**Huawei, Bangalore, India** Feb 2017 to till date

**Senior Software developer**

**Project Description:** DMP system that is getting developed from the scratch unifies all the users’ data across all the cloud services of huawei and its partners. The DMP system stores and manages users’ data and behavioral information from multiple systems to understand the user better.

The stored data then will be used to execute predefined audience conditions, based on execution result system decides the user falls under which category of audience one user falls under multiple audience category based on audience condition execution result. Later the particular audience category will be targeted for personalized recommendations, advertisements etc.

**Responsibilities:**

1. Analysing the given requirement, preparing simple design document, coding, unit testing and code review. Majorly involved in java aspects of the project and writing common useful utilities that can be used by all components of the system.
2. Developed java client framework that gets connection with in-memory Redis database and interacts with same by executing redis commands like get using jedis library and huawei’s customized DCSDK library.
3. Developed REST APIs to support CRUD operations for Console component of the DMP.
4. Integrated Logback logging framework to project and developed common adapter which helps all components of project to write logs as per department guidelines.
5. Developed java Kafka producer that writes data to intended topic with support from big data experts

**Tools and Technologies:** Core Java, Spring Core/MVC,Hibernate**,** Redis, MySQL, Gradle, Bigdata Technologies

1. **Project Name:** **Recommendation server** (**RAS**)

**Huawei, Bangalore, India** July 2016 to Feb 2017

**Senior Software developer**

**Project Description:** Recommendation platform pushes apps/video/news etc recommendation to end users mobile.RAS which was developed from the scratch is one of the sub component of Recommendation platform which exposes REST API to accepts the request, based on the request it decides whether to recommend apps/video/news etc and queries preloaded recommendations for the user from REDIS database and send it back to the requester.

Recommendations query, audience conditions checking and algorithms execution happens by executing DROOLS files which are generated and pushed to Maven repository (Sonatype Nexus) by other component called Scenario Manager (SCM). RAS read the DROOLS files from repository and caches in to memory once there is request for recommendation corresponding DROOL file will be identified and all rules in the file will be executed one by one to ultimately return the recommendations which are really intended for the user.

**Responsibilities:**

1. Analysing the given requirement, preparing simple design document, coding, unit testing and code review. Responsible for Continues Integration (CI) activities of project like compile and packaging the software, maintaining code quality using the tools like CheckStyle, PMD, Findbug, Source monitor, fortify and coverity. CI tool used was Huawei’s proprietary ICP-CI.
2. Developed code that interacts with Sonatype Nexus to query artifacts (DROOL files) deployed using exposed REST interface “/service/local/lucene/search”, download JAR from repository using KIE and DROOLS library and cache it to serve request.
3. Developed REST interface which accepts POST request and returns preloaded recommendations by querying REDIS in-memory database in JSON format after processing.
4. Implemented rule executor that executes rules inside .drl file one by one using KIE and DROOL libraries.
5. Developed java client framework that gets connection with in-memory Redis database and interacts with same by executing redis commands like get using jedis library and huawei’s customized DCSDK library.
6. Developed useful components like Concat, Encrypt decrypt, split, Json reader, Redis reader, topN, sort etc
7. Responsible for configuring CI build for the project to compile and build software deliverables and integrating the code quality tools like Checkstyle, PMD, Findbug, Fortify and Coverity also fixing the issues reported.

**Tools and Technologies:** Core Java, Spring Core/MVC**,** Redis, Drools, Sonatye Nexus, KIE, Gradle

1. **Project Name: Unified Service Development Platform**  **(USDP)**

**Huawei, Bangalore, India** Sep 2012 to Jun 2016

**Software developer**

**Project Description:** USDP is the management node for CRBT (Color Ring Back Tone) and MRBT (Multimedia Ring Back tone) service. USDP provides the web services to manipulate management node data. USDP provides services like Provisioning, Resource Management and Charging for the subscribers of the CRBT system. It also provides communication with the other RBT systems like web for updating the information regarding user subscription and Charging. Using USDP system, operator can generate charging CDRs and can view the statistics on all subscription and resource management related operations. This product communicates with MSC and HLR. Provides the flexibility to all the features, so that the customer can customize the product features in the way they require. USDP supports features such as caller RBT, called RBT etc.

**Responsibilities:**

1. Analysing the given requirement, preparing simple design document, coding, unit testing and code review.
2. Developed SOAP client interfaces that communicate with HLR/external system for provisioning the service.
3. Fixing the production issues and releasing patches after testing along with release documents and providing urgent patches with requirement implementation.
4. Testing upgrade/rollback of patches and supporting upgrade/rollback on round robin fashion.
5. Developed tools the helps team and site engineers who sits at customer place like migrating full user data from base64/DES to AES256, decrypting data encrypted with base64/DES/AES.
6. Implementing the customer requirements, customizations assigned

**Tools and Technologies:** Core Java, J2EE, Web services, Soap UI, PLSQL

1. **Project Name:** **IMOST Promotion platform**

**Huawei, Bangalore, India** Dec 2011 to Aug 2012

**Software developer**

**Project Description:** Old promotion platform was able to support promotion of RBT (Ring Back Tones) the drawback was it was fixed to promote RBT’s.

Suggestion from HQ was to develop promotion platform which should support other products like Games, Music etc along with RBT. Now this new promotion platform designed from scratch to support any number of products for promoting. This platform promotes the respective product to the end users the product may be RBT, Music, Games etc by sending marketing message through SMS gateway to user, based on user’s reply platform invokes respective products interfaces provided by respective product platforms likes USDP, Games etc to perform the respective operation like subscribe, download, unsubscribe.

**Responsibilities:**

1. Analysing the given requirement, preparing simple design document, coding, unit testing and code review.
2. Developing REST controllers to expose CRUD interfaces using MyBatis as DAO layer
3. Writing spring scheduled tasks to process CDRs.
4. Fixing static issues like CheckStyle, PMD, Findbug, Fortify and Coverity
5. Implementing business requirements and fixing bugs

**Tools and Technologies:** Core Java, Spring Core/MVC, JSON+REST, MyBatis, Oracle 10g, Maven



**AWARDS AND RECOGNITION:**

* Won “Best Initiator” spot award for introducing Google’s “CodePro AnalytiX” eclipse plug-in which helps in maintaining code quality and readability by reporting 100s of issues to whole department.
* Awarded the “Best Development Contribution” Award for quality release in very short period of time
* Awarded the “The Best New Comer” Award for high contributions in early days of project development.

**ADDITIONAL INFORMATION:**

**EDUCATION:**

* Bachelor of Engineering in Computer Science and Engineering, University of VTU Bangalore, Karnataka, India, 2011.
* Pre-University Course in PCMB from Department of Pre-University Education Bangalore, Karnataka 2007

**PERSONAL DETAILS:**

Nationality **:** Indian

Marital Status **:** Married

Language Proficiency**:** English, Kannada, Telugu, Hindi

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

**Chandra S C**