

# Rahul Ratra

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## **Profile Summary :**

- Detailed oriented Back End Software Engineer with 5 years of professional experience, most recently specializing in enterprise Java development.
- Having strong technical knowledge of object oriented design, algorithms, data structures and operating systems.
- Extensive knowledge and experience in designing and developing scalable, high volumn data processing systems based on multi-threaded, client-server and distributed architectures using Java technologies.
- Experience of working in a cross-functional environment with members from product management, QA, global delivery and pre-sales teams.
- Experience in developing Web services using XML over HTTP(s), SOAP, WSDL, RESTFUL Protocols.
- Working experience in Payments and Finance domain.
- Good knowledge with all the phases of Software Development Life Cycle (SDLC) such as analysis, design, development, testing, deployment & post production support.
- Involved in integration, functional and user acceptance testing.
- Excellent analytical, problem solving, effective communication and decision-making skills, with ability to interact with individuals at all levels in the organization

## **Education :**

### **Master of Science in Computer Science**

*University of North Carolina, Charlotte, United States of America*  
3.8 GPA

**(Jan 2019 – May 2020)**

### **Bachelor of Science in Electronics and Telecommunication**

*Chhattisgarh Swami Vivekanand Technical University, Bhilai, India*  
7.54 CGPA

**(Jul 2009 – May 2013)**

## **Technical Knowledge :**

<b>Programming Languages</b>	Cores Java 1.7 & Java 1.8, J2EE, Python, SQL, PL/SQL
<b>Database Technologies</b>	Oracle 10/11g, MySql
<b>Scripting Languages</b>	JavaScript, CSS, Python, AngularJS
<b>Technologies/Frameworks</b>	REST, SOAP, WSDL, Hibernate 5.0, Spring-core 4.X, Spring Data JPA, Spring AOP, Spring Boot, Spring Batch, JPA, JDBC, JNDI, JMS, Apache ActiveMQ, Apache Hadoop, Apache Spark, JUnit, Jmock, Mockito, Lucene, JAX-RS, JAX-WS, Apache JAXB, XML, HTML, JSON, AJAX,JSP Bootstrap, Ant, Maven, Splunk, Log4J.
<b>Web/Application Servers</b>	Apache Tomcat, Jboss 7x, Weblogic 8x/9x
<b>Operating Systems</b>	Mac, Linux, Solaris, Windows
<b>Methodology</b>	Agile/Scrum programming, Extreme programming, Waterfall model

**Design Methodology**

UML, Design Patterns & Architecture Design Patterns

**Tools**

Eclipse, IntelliJ, X-code, Spring Tool Suite, JProfiler, CVS, SVN, Git, Bugzilla, Jira, Firebug, Jenkins, Jconsole, VisualVM, SQL developer, Jmeter.

**Professional Experience :****Graduate Teaching Assistant, University of North Carolina Charlotte, USA****(Jan 2019 - Current)**

- Developed positional and Inverted Index for using Map Reduce in Hadoop.
- Share-N-Learn an online portal to help people find a tutor or group of people to learn/discuss any topic or subject they are having trouble understanding it. A search using zip code or subject helps one to find a tutor or people interested in group learning and discussion. Implemented using Spring Boot, Hibernate, MySQL and Angular.
- Implemented linear regression with least squares using pyspark.

**Software Development Engineer, Yodlee Infotech Pvt Ltd., Bangalore, India.****(Nov 2015 – Dec 2018)**

*Subject matter expert for Personal Finance Management domain(PFM). Involved from inception to release of a feature in PFM domain in Yodlee Infotech Pvt Ltd.s*

**Client – Fidelity Investments, Personal Capital**

- Agile Scrum master lead team of 5 members and responsible for producing functional specifications, product design and architecture specifications with hands-on code development.
- Designed and developed RESTful web services to fetch user transactions which is then fed into analytics engine to generate personalized and customer-centric offers on daily basis.
- Developed credit lending API's for personal capital that leverages Yodlee's PFM data to provide instant credit approval to its users.
- Designed & developed framework responsible for auditing, monitoring and reporting of various payments domain services.
- Implemented validation framework in existing core product which resulted in enhanced business logic.
- Conceptualized and implemented key RESTFUL webservices to update & retrieve customer's history in payments domain.
- Designed & Implemented in-memory cache system in payments REST API's that resulted in optimizing SLA time to 300 ms from 450 ms.
- Designed and implemented logging framework in all REST services using Spring AOP.
- Coded the robust Java Classes for web Information scraping.
- Worked closely with product managers on analyzing market requirements, prioritizing and designing product features.
- Worked with client technical team on requirements and drafting SOW(Statement of Work).
- Two spot awards for outstanding performance and awarded with most valuable person award from the CEO of Yodlee Infotech.

**Client – Well Fargo**

- Involved in designing and development of multithreaded and configurable workflow engine responsible for high volume data processing.
- Designed and developed REST API's & instant account verification logic. This API's can be used to add rules on top of existing ruleset and helped to mitigate bad data.
- Developed challenge deposit verification API for PayPal which helped to verify new accounts and

customers .

- Developed a web services for Wells Fargo, which helps users to aggregate their bank account in Yodlee's personal finance management platform and helped them to view and track all their financial activities.
- Developed web services that is capable of listening millions of user transactions, aggregates them and processes them within milliseconds.
- Developed batch processing mechanism for Wells Fargo to reduce the load on their webserver.
- Implemented O-Auth authentication in the existing platform to replace the use of Wells Fargo credentials stored with Yodlee.
- Provided post launch support in terms of data issue, bug fixes, enhancements and new feature requests.
- Implemented automated functional test suites that helped in improving the Quality assurance index of the web services.
- Migrated a RESTful Java 1.7 based service to Java 1.8 and successfully deployed it to production. This involves re-factoring and re-structuring of the code by using Java 1.8 standards.
- Mentored junior developer to make them familiar with existing code and different applications.

**Software Engineer, Hewlett Packard Enterprise Ltd.**

**(May, 2014 – Oct, 2015)**

*Worked as an Application developer for an Online platform that will help company executives to see the financial view of a company-wide active projects. Features encompasses details of goods and services to be sold to its customer, project cost and revenue management, turnovers, report generation and invoicing.*

- Led Proof of Concept (POC) project to evaluate, identify and select emerging technologies and tools for portal, SOA and BPM platform.
- Designed and implemented RESTful based workflow services that can be utilized by the other modules in the system.
- Introduced a multi-threaded Java feed processor for faster processing of the incoming records from various systems.
- Integrated with different JSON feeds from multiple systems using spring boot as the main integration component.
- Introduced a new feature for handling crash recovery mechanism in the system, using checkpoints.
- Implemented the persistence layer using Hibernate ORM and configured hibernate with spring to interact with the oracle database.
- Database development that required creation of new tables, PL/SQL stored procedures, functions, views, indexes, constraints, triggers.
- Improved the existing store procedures by doing SQL tuning that resulted in reduced response time in the application.
- Extensively used J2EE design patterns and architecture design patterns.

Yours sincerely,  
Rahul Ratra