RAHUL RATRA

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EDUCATION

Master of Science: Computer Science, University of North Carolina, Charlotte USA (Jan 2019- May 2020) (GPA 3.8)

Bachelor of Science: Electronics and Telecommunication, Vivekananda Technical University, IN (Aug 2009-May 2013)

PROFESSIONAL SUMMARY

Detailed oriented full stack Software Engineer with 4 years of professional experience, most recently specializing in enterprise Java development.

Having strong technical knowledge of algorithms, data structures and operating systems.

Strong working knowledge of Core Java, Spring framework, Hibernate, Maven, SQL, Design Patterns.

Extensive knowledge and experience in designing and developing scalable, high volume data processing systems.

Having expertise on multi-threaded, client-server and distributed architectures using Java technologies.

Experience in developing Web services using XML over HTTP(s), SOAP, WSDL, RESTFUL Protocols.

Experience of working in a cross-functional environment with members of product management, Quality Assurance, global delivery and pre-sales teams.

Implemented several web service projects using Agile Methodology and serving as a Scrum master in a team of 5 members.

Good knowledge with all the phases of Software Development Life Cycle (SDLC) such as analysis, design, development, testing, deployment & post production support.

Excellent analytical, problem solving, effective communication and decision-making skills, with ability to interact with individuals at all levels in the organization.

SKILLS

Programming Languages: Core Java 1.7 & Java 1.8, J2EE, Servers Apache Tomcat, Jboss 7x,Weblogic 8x/9x Python, SQL, PL/SQL

Operating Systems: Mac, Linux, Solaris, Windows

Database Technologies: Oracle10/11g, MySQL, SQLite,   Methodology: Agile/Scrum programming, Extreme SQL-server Scripting   programming, Waterfall model

Tools:Eclipse, IntelliJ, Spring Tool Suite, CVS, SVN, Git,

Technologies/Frameworks :REST, SOAP, WSDL,

Bugzilla, Jira, Firebug, Jenkins, Jconsole, VisualVM, SQL

Hibernate, Spring-core 4.X, Spring Data JPA, Spring AOP,

developer, Jmeter.

Spring Boot, Spring Batch, KAFKA, JPA, JDBC, Hadoop,

JUnit, Jmock, Mockito, Lucene, JAX-RS, JAX-WS, JAXB,

XML, HTML, JSON, AJAX, Angular JS, Bootstrap, Ant,

Maven, Splunk

ACADEMIC PROJECTS

Developed positional and Inverted Index for University library using Map Reduce in Hadoop.

Implemented Page Rank Algorithm using pyspark.

Implemented linear regression with least squares using pyspark.

Hill climbing search of placing N chess queens on an N×N chessboard so that no two queens attack each other. Here we will place each given queen in a different column such that it doesnt threaten any other queen in any manner, not in a diagonal or side way or up and down.

8 Puzzle problem by A* algorithm which provided best solution to the 8-puzzle problem using A star (*) search technique

Implementation and Simulation of Go-Back-N and Selective Repeat Protocols using unreliable channel (User datagram packet)

Distance Vector Routing Protocol on several different machines, input to which is the set of directly attached links and their costs of that router which resulted in finding cost and the next hop for the shortest paths to all other routers in the network.

PROFESSIONAL SUMMARY

Graduate Teaching Assistant, University of North Carolina Charlotte   (Jan 2019 to Current)

Teaching assistant for Machine Learning ITCS-6156

Software Development Engineer, Yodlee Infotech Pvt. Ltd.   (OCT 2015 DEC 2018)

Client Fidelity Investments, Personal Capital

Project Description:

Yodlee data analytics provide financial advisory firms a unique solution to address their cutting-edge risk and discover best growth

opportunities. This product enables advisory firms to make smarter decisions around individual credit worthiness. Additionally,

Real time transaction data provided by the Yodlee data analytics help financial institutions to make better lending decisions and to

target potential customers by providing them with lucrative offers based on their financial activity.

Responsibilities:

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 transaction which is then fed into analytics engine to generate personalized and customer-centric offers on daily basis.

Conceptualized and implemented key RESTFUL API's to update & retrieve customer's history in payments domain.

Designed & developed framework responsible for auditing, monitoring and reporting of various payments domain services.

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

Software Development Engineer, Yodlee Infotech Pvt. Ltd.   (OCT 2015 DEC 2018)

Client Well Fargo

Project Description:

Wells Fargo has engaged Yodlee to deploy their personal finance management tool in their cloud environment which acts as the one-

stop solution for aggregating user accounts containing the bank, credit card and investment transactional data. Using this platform

user will be able to see and plan their financial activity. Part of this deployment includes OAuth authentication mechanism

implementation for user identification. This feature has enriched the user experience by reducing the overall latency during account

aggregation by 90% compared to conventional methods of financial data aggregation. Hence providing the user with a single window

to view all their financial activities and reducing the cost of multiple hits on an end site to crawl the financial data.

Responsibilities:

Involved in designing and development of multithreaded and configurable workflow engine responsible for high

volume data processing.

Developed a web service for Wells Fargo, which helps users to aggregate their bank account in Yodlee's personal

finance management platform to view and track all their financial activities

This web service is capable of listening millions of transactions of users, aggregates them and processes them within

milliseconds.

Provided post launch support in terms of data issue.

Handled any ad-hoc requests and ensure that the data quality is remains intact.

Software Engineer, Hewlett Packard Enterprise   (May 2014 Oct 2015)

Client Hewlett Packard

Project Description:

This application software is an online platform that will help company executives to see a 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. It comes with a power to plan anything from budgeting expenses to creating financial

statements and forecasting revenues. The tool is highly scalable and flexible for reporting and analytics.

Responsibilities:

Led Proof of Concept (POC) project to evaluate, identify and select emerging Technologies and tools for Portal,

SOA and BPM platform.

Involved in design and development of product's multi-threaded and configurable workflow engine responsible for

high volume data processing. It serves as a backbone of the entire application.

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 web service with different XML feeds from multiple systems using Spring & Apache Camel as the main

integration component.

Implemented the persistence layer using Hibernate ORM and configured Hibernate with Spring to interact with the

oracle database.

Performance and scalability improvement of the product by doing performance tuning & load testing of the product

using Jconsole & JVM capabilities. Extensively used J2EE Design Patterns and Architecture Design Patterns.

Yours Sincerely

Rahul Ratra