Ramesh Jha

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SUMMARY

- Almost **14 years of work experience** deeply into **product development and R&D** at Soroco, Sapient Consulting, PeopleStrong, Times Business, Dell Inc., eBay-CSC, Erevmax in the role of Platform Specialist, Solution Consultant, Team Lead, Manager Software Engineer, Senior Software Engineer, Software Engineer and Associate Software Engineer respectively.
- Worked on more than **20 development projects** as Solution Architect, Team Leader, individual contributor, following Agile, Waterfall and prototype methodology as Software Development Life Cycle (SDLC).
- Expertise in AWS Cloud, Micro Service Architecture, Service-oriented architecture (SOA), Design Patterns, Design Principles, Object Oriented Design (OOPs), Object Modeling (UML), Multithreading, Data structure and Algorithms.
- In-depth knowledge of JVM, worked on JVM and Bytecodes in many projects including creating profiler tool at eBay, Spring AOP project etc.
- As a full stack developer hands on Backend (Spring Boot, JSF, Hibernate), Databases (NoSQL, Big Data, SQL), UI technologies (ReactJS, AngularJS, jQuery, JavaScript) and Messaging (JMS, Rabbit MQ, Kafka) i.e., complete end to end development expertise.
- Worked on Performance and Scalability, which includes analysis of Verbose GC, Heap dump, Thread dump, Horizontal, Vertical scaling, and Cloud Computing.
- Good at leadership, people management, client engagement and partnership, time-bound quality delivery of products.
- Graduate from **IIT Kharagpur** (2007) which is a top-notch engineering institution of India.

IT SKILLS

AWS Cloud Native, Salesforce, **Micro service Architecture, Spring Boot, Spring Security, API Gateway,** Hadoop (HBase, Hive, Zookeeper, HDFS), NoSQL (Couchbase, Mango DB, SOLR, Redis), Memcached, AngularJS, JAX-RX, JAX-WS, JAXB, REST, SOAP, SOA, Spring AOP, **Spring MVC**, **Hibernate**, Struts, Java Concurrency, **Multithreading**, Flex, Byte code Instrumentation, JVM, Servlets & JSP, RDBMS, JDBC, SQL, Java Collections, Swing, Core Java, Data Structure and **Algorithm**, C

EDUCATIONAL QUALIFICATION

Bachelor's degree from **Indian Institute of Technology, Kharagpur,** July' 2002 – May' 2007

Academic Credentials

- Ranked in Top 2% among 169,500 candidates who appeared for the **IIT-JEE** examination in 2002
- Got MCM Scholarship at IIT Kharagpur.
- Got pre-placement offer from GKKSSA Pvt. Ltd. at the end of my 6 months academic training.

CERTIFICATIONS

- Machine Learning with Python: from Linear Models to Deep Learning – MITx   2021
- Introduction to Computer Science and Programming Using Python – MITx   2019
- Amazon AWS   - O'Reilly Safari   2019
- AngularJS by Xebia   2015
- Sun certified programmer for java platform (**SCJP**) by Sun Microsystem   2008

TECHNICAL SKILLS

NoSQL:	SOLR, Mango DB, Redis, CouchDB, Cassendra
Hadoop:	HDFS, Hive, Map Reduce, Zookeeper, HBASE
Technologies:	Spring, SOAP, REST, JSF, Struts, Hibernate, Servlets & JSP, JDBC
UI technologies:	JavaScript, jQuery, AngularJS, NodeJS, CSS, Bootstrap
Programming Languages:	Core java, C & Data Structure, SQL, Python, Perl, PHP
Application servers:	Apache Tomcat, WebSphere and JBoss
Databases:	Oracle, DB2, PostgreSQL and MySQL
Operating systems:	UNIX, Linux Fedora, Windows 10.
IDEs:	IntelliJ IDEA, Eclipse, RAD, STS and NetBeans
Repositories:	Git, CVS, SVN and IBM ClearCase
Build Tools:	Maven, Ant and Gradle
Productivity suits:	MS (Word, Excel, Power Point & Project) & Open Office
Mark-up languages:	Basic HTML, CSS, Java Script, XML and JSON

WORK EXPERIENCE

Soroco India, Bangalore, Technical Lead,   June 2021 to Present

Client: Amazon, **Project:** Specter (Salesforce) Coupa Integration, **Project Description:** Automate Manual Work between two different application Specter (Salesforce) and Coupa, **Skill/ Domain:** Design, Python, AWS Lambda, DJS Scheduler, Salesforce, NAWS, AWS RDS, AWS S3, **Roles & Responsibilities –** Solution Architect

- *Did functional, non-functional requirement analysis, Infrastructure Requirement Analysis, Solution Design, High Level Design and explained it to different stack holders.*
- *Created Solution Diagram, Entity Relation Diagram, Technical Solution Design (TSD)*
- *Mentored team to understand and collaborate in Low Level Design, Modules, APIs of Specter and Coupa Application and understand each technical task to work on it.*
- *Did code review, System Integration and Created many APIs in Salesforce to integrate our application smoothly.*

Sapient Consulting, **Delhi NCR,** Platform Specialist/Manager,   June 2018 to May 2020

Client: UBS, **Project:** ROCS (Regulatory operations corrections system)**, Project Description:** All broker-dealers who are US FINRA member firms have an obligation to report transactions in TRACE-eligible securities under an SEC-approved set of rules. There are thousands of trades happening every day at UBS and that must report to FINRA by the next day. If there is any data error, the bank must pay a huge penalty. The ROCS system automatically detects the errors, correct the error if it comes under specified rules or send for manual correction**, Skill/ Domain:** Java 8, Spring Boot, Micro service applications, Multithreading, Amazon AWS,   reactJS, data structure & algorithms, JMeter, rest endpoints, Hibernate, **Roles & Responsibilities –** Solution Architect & Team Lead

➢ *Workflow design & development: Designed & developed workflow system in such a way it includes forking and joining of two different states.*
➢ *Validation Framework design & development: System can handle any type of validation either JAVA or, SQL and that's totally configurable.*
➢ *Database re-design: ROCS System Database redesign based on client's feedback.*
➢ *Performance & Scalability Analysis: Load Testing using JMETER, deployed on Amazon AWS and tested the auto scaling architecture.*
➢ *Role Based Access Control (RBAC) design: Design and developed RBAC in such a way that it handles both less restrictive & more restrictive security approach and that will be also configurable.*
➢ *System Notifications design & development: All the notification and activity in ROCS application will be captured along with send mail alerts based on events.*
➢ *Team Handling & management: sprint planning, scrum calls, task estimations, task allocations, mentoring team to understand requirement & design of module, resolving critical issues and tie bound delivery.*

Client: Alberta Electric System Operator (AESO), Canada, **Project:** AESO Operations Improvement**, Project Description:** The Alberta Electric System Operator is the non-profit organization responsible for operating Alberta, Canada's power grid. AESO oversees the planning and operation of the Alberta Interconnected Electric System in a "safe, reliable, and economical" manner, **Roles & Responsibilities:** Designer
➢ *Designed and Developed application including design document to calculate historical supply cushion of power distribution for last 10 years in Alberta.*
➢ *Architecture Design and it's UML Diagrams, ER Diagrams, and documentation along with development for, I). Historical Supply Calculation Application, ii). Analysis and design Realtime Supply Cushion Calculation Application.*
➢ *Created UI application in angular 2 for historical supply cushion. Design and Documentation of application to calculate real-time supply cushion.*
➢ *Helped and guided the process of migration of AESO ETS application from struts1 to spring framework which includes migration of tags, validation, tiles framework, security.*
➢ *Participated in several Hackathons at AESO along with team and won the contract from AESO.*

Skill/ Domain: Java 8, Spring Boot, WebLogic JMS, TIBCO Messaging, Swing, Oracle 11g, Spring MVC, AOP, Struts 1, JAAS, Spring Security

Client: Glencore**, Project;** Commodities Trading Platform, **Project Description:** Trading Platform for metals commodities which includes procurement, transport, contract, derivatives many modules, **Technologies:** Java 8, J2EE, Spring Boot, NodeJS, ReactJS, Graph QL, Docker, RabbitMQ, WebSocket, Elasticsearch, Mango DB, **Environment:** Eclipse, Oracle 11g, Windows 8, **Roles & Responsibilities:** Individual Contributor, Solution Architect

➢ *Did Functional and Solution Analysis and Design, Microservice Architecture Design, High Level Design, Entity Relationship Design, Infrastructure Analysis, Cloud Analysis.*
➢ *Developed OAuth2 Security Microservice, Contract Microservice.*

Client: Citi Bank, **Project**: MRMS, **Project Description:** Citi Bank had to create repository for its business model with validation criteria as per US Fed guidelines, **Technologies:** ExtJS, Hibernate3, Spring, **Environment –** Eclipse, Oracle 11g, Windows 8, **Roles & Responsibilities:** Team Lead

➢ *Worked as Lead, Design and Development, Sprint Planning, Task Allocation, Resource Management.*

People Strong HR Services, Delhi NCR, Team Lead,   Feb 2015 to Aug 2017

Project: Recruit Solution, **Project Description:** This product provides complete recruitment solution from shortlisting of candidates till onboarding. This product is divided into four parts, a. Candidate Portal, b. Vendor Portal, c. Recruit Portal, d. Onboarding Portal. **Technologies:** JSF, Hibernate3, Maven, **Environment:** Eclipse, MSSQL Server, Windows 8, CouchDB, **Roles & Responsibilities:** Team Lead

➢ *Design and Development, Sprint Planning, Task Allocation, Resource Management.*

Times Business Solution, Delhi NCR, Senior Software Engineer Manager 2,   Feb 2014 to Feb 2015

Project: Content Module (content.magicbricks.com), **Project Description:** A complete content management software (which resembles with word press) for real estate article management published by MagicBricks.Com. **Technologies –** Spring3, Hibernate3, Maven, jQuery, AngularJS, **Environment –** Eclipse, MySQL, Windows 8, CouchDB, **Roles & Responsibilities:**

➢ *I was assigned to complete this assignment along with one team member, we developed it from scratch with same functionality as WordPress, Completed the project in three months and made it live. Implemented Couchbase in this project.*

Project: Advice Module (advice.magicbricks.com), **Project Description:** Advice module of MagicBricks.Com helps user to compare localities, rates and trends, calculators to suggest if one should buy or not. **Technologies –** Spring3, Hibernate3, Ant, Apache SOLR, AngularJS, Bootstrap. **Environment –** Eclipse, **DB2**, Windows 7. **Roles & Responsibilities:**

> *It was new development task along with integrating several modules in it, completed this task in two months along with one team member, also released separate admin part for advice strategy inputs by business.*

Project: Analytics Module, **Project Description:** This project compares search results based different parameters of magicbricks.com with their competitors, this was internal tool for business. **Technologies –** Spring3, Hibernate 2.5, HTML Parser. **Environment –**Eclipse, MySQL. **Roles & Responsibilities:**

> *I was alone assigned this task and completed it in very short time.*

Project: Profiler Application, **Project Description:** An application which collects data at method level to find out which method takes much time causes an URL which takes long time to execute. This application does static byte code enhancement in application war. **Technologies –** ASM, Core Java. **Environment –** Eclipse, Linux, Windows 7, MySQL. **Roles & Responsibility:**

> *This is the second time developed this tool, first time I did it for eBay, completed alone in Just one month along with all interfaces, this tool helped developer to analyze their code and make them efficient.*

Batch Processes – *Developed several batch processes for alerts, customer's profile, property data modification, mailer to send mails and SMS based on Spring3 batch process as scheduled jobs.*

Dell Incorporation, Delhi NCR, Software Developer || July 2011 to Feb 2014

Project: Active System Manager (ASM), **Project Description:** This product manages Computing (Servers), storage (Database Servers) and Network (switches) resources of AS800 and AS50 Dell's hardware systems and it does provision for Virtual Machines to support clouds. **Technologies –** Spring, hibernate, JAXB, Gradle, JavaScript, jQuery, AngularJS. **Environment –** Eclipse, Linux, Oracle 10g, JIRA, Confluence**. Roles & Responsibilities:**

> *Implemented JAXB on architecture Level as part of XML API,*
> *added self-start module for complete end to end provisioning,*
> *added approval module in gale force for reservations,*
> *Re-skinning of entire web part of Gale force UI,*
> *worked on performance & Scalability of Product,*
> *Designed data dictionary and data modeling of ASM using reverse engineering.*

CSC Corporation, Chennai, Software Engineer,   January 2009 to April 2011

Client: eBay Inc., **Project:** Profiler (eBay's System tool), **Project Description:** A framework which collects data at method level execution of any application, one among data collection is method execution timings. It has three different layers, A. Byte Code Enhancer – This application takes a jar/war/zip file an input and modifies all the required class files (i.e., filtered) method's instructions so that tracer framework will be called at the time when method executes. B. Tracer Framework – It's highly optimized framework for getting required data and storing it into file system or, database (by using stored procedure) when application executes. C. Database view - This application fetches the database and displays required information to the user. **Technologies** – Java, BCEL (Byte Code Engineering Library), JSP & Servlet, Hibernate. **Environment** – IDE Eclipse 6, IBM Rational ClearCase, DB2, **Roles & Responsibilities**:

➢ *I was solely responsible for successful release of this product to eBay's PD/QA team.*

Client: eBay Inc., **Project:** AppDiff Application (eBay's System tool), **Project Description:** A This product takes two eBay production machine names as input compares configuration difference, component difference, service id, JVM memory, active threads, CPU usages and Process memory, displays and save reports. **Environment & Technologies:** Core Java, Servlet, JAXB, Flex & Action Script, Apache Tomcat, Ebox, WSDL, SVN, **Roles & Responsibilities**:

➢ *Prepared Product Requirement Document (PRD) and Design Document (PDD).*
➢ *Development of entire product based upon design document by using Design patterns, class diagrams, JAXB on Ebox (eBay's internal MVC web framework) and flex as a view part.*
➢ *Migration of the application after development to SOA framework.*

Client: eBay Inc., **Project:** Prod-Corp Bridge (eBay's System tool), **Project Description:** This is very useful application developed to communicate with eBay's prod domain database from corp domain. Depending upon the request parameter for various purposes, this application fetches the database and returns the data from database as an XML to the user. One additional UI which display a particular type of data type in flex. **Environment**: Core Java, Servlet, DAL, JAXB, Flex & Action Script, Apache Tomcat, Ebox, WSDL, SVN, DB2

➢ *Prepared Product Requirement Document (PRD) and Design Document (PDD).*
➢ *Development of entire product based upon design document by using Design patterns, class diagrams, JAXB on Ebox (eBay's internal MVC web framework with includes DAL layer to communicate with database) and flex as a view part.*
➢ *Migration of the application after development to SOA framework.*

Client: Sears Holdings, **Project:** SI Administration (Service Integration for Sears HC), **Project Description:** An administrative tool developed to grant access to different types of technicians at different location to do their specified operation, setting promise set time band for different location, part order transfers and tier pricing for different zip codes by business manager and IT team. **Environment** - Core Java, Servlet, Filters, Struts 2, JSP, Hibernate, Oracle, Apache Tomcat, Eclipse

- *Analyzed and reviewed Product Requirement Document (PRD) and Design Document (PDD) to start development work.*
- *Created tables in database Wrote DAL to connect to database and created several mapping tables for query optimization.*
- *Developed tier pricing module for technicians who works on tier pricing.*

Project: Client Specific Pplus Enhancement (CSC's application), **Project Description:** The PerformancePlus® is a proprietary product of CSC which manages broker arrangements, agent sales channels and hierarchy complexities, as well as the full range of product offerings. It gives insurers the ability to calculate commissions, offer easy adjustment processing and provide full audit trails documenting all transactions accurately and efficiently. **Environment -** Core Java, JSF, iBatis, DB2, Apache Tomcat and Eclipse.

- *Added new fields along with functionality as a part of customization for Symetra specific changes.*
- *Created new pages in this product along with backend integration with service manager calls and some for JDBC calls.*

Erevmax Technologies, Chennai, Associate Software Engineer,   July 2007 to April 2008

Project: Rate Tiger Strategy Engine, **Project Description:** It aimed at developing a standalone & self-intelligent system, a). Search for hotel prices of competitors in a particular locality on many popular hotel booking websites configured by user, b). Based on competitor price and occupancy as input, it decides price of the hotel room based on suited strategy, c). After the confirmation of the price from user it updates the same price throughout all those subscribed hotel booking websites. d). it also manages the availability of the room for each subscribed website. e). Generates several reports and maintains a log in the database. **Technologies:** Core Java, Swing, Servlet, Thread Pool, XML, JDBC, RDBMS, SQL, Webl. **Environment:** Fedora Linux, IDE – NetBeans 5.5, Apache Tomcat 6.0.14, MS SQL Server 2000. **Roles/Responsibilities:**

- *Getting required data of competitors in a XML format from customer booking websites.*
- *Strategy calendar which maintains the price strategy for next two months based upon market situation.*
- *Recommend price on occupancy & relative strategy using abstract factory pattern*
- *Distribution & pool management system to sell the available rooms through several booking websites.*

Indian Institute of Technology Kharagpur, Student,   July 2002 to April 2007

1. Title: **Developed supermarket automation software on JAVA platform.**
2. Title: Graphics editor program which enables the user to carry out certain 3-dimensional graphics operation like drawing, scaling, rotation, and transformation using **C as a programming language**.

INDUSTRIAL TRAINING

1. GKKSSA Consultants Private Limited, Pune, May' 06 – Oct' 06
2. Rural planning and Management Unit, IIT Kharagpur, May' 05 – July' 05
3. Techno Electric & Engineering Comp. Ltd., Saharsa, Dec' 06 – Dec' 06

OTHER DISTINCTION

➢ Member of organizing committee of technical festival ZONASA-2004 in 2004 (A technical festival for the technical institutes of Eastern India zone consisting of over 1000 students).
➢ Member of inter-hall hockey and football team of Patel Hall from 2003 to 2006.
➢ Head Security Team, ZONASA 2004; Sub-Head Web Team, ZONASA 2004.