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Description automatically generatedPRASAD P**

**SR. BUSINESS SYSTEMS ANALYST**

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CAREER SUMMARY

Self-motivated, resilient and pro-active senior business analyst with a solid **9+ years** of experience in variety of modern-day **banking** and **financial** sector **IT implementation projects** such as **security trading, portfolio management, banking and Enterprise Data Integration projects on Distributed Storage Environment.** Thorough with compliances and regulations related aspects of the industry with a proven track record of working with cross functional teams.

PROFESSIONAL SUMMARY

* Extensive knowledge, expertise and involvement in software development life cycle including **Waterfall, Agile Methodologies (SCRUM, Extreme Programming, RUP), Agile SAFe, SCRUM - Waterfall hybrid, KANBAN** etc.
* Coordinated efforts between **Legal Compliance Team, Guideline Monitoring** and **Portfolio Management** to define guidelines.
* Assisted **project managers, Project Owners** and **Management** in achieving project milestones and deliverables by performing **GAP analysis, Impact Analysis, SWOT Analysis, Root Cause Analysis, Critical Path Analysis and Cost-Benefit Analysis.**
* Facilitated **JAD session** and conducted **interviews** to identify the **business rules, requirements** and **dependencies**, documented them in an intuitive format that can be reviewed and understood by business and technical team members.
* Used **Rational RequisitePro** for managing and configuring the requirements analysis effort, participated in design walk-through with **SMEs** and **enterprise architects** to understand and baseline the **business architecture.**
* Successfully gathered requirements from various stakeholders and transformed them to **Business Requirement Document (BRD), Software Requirements Specification (SRS) and Functional Requirement Document (FRD).**
* Proven track record of working with **cross-functional team** and completing tasks within the **timeboxed sprint cycle.**
* Proven experience working in **Sprint cycles and Ceremonies** such as **Sprint Planning, Daily Scrums, Sprint Reviews, Sprint Retrospective and Backlog Grooming**, reviewed and assisted in **PSPI** demonstration during sprint review meeting**.**
* Authored **clear, concise and unambiguous** **Epics** and **User Stories** with defined and measurable **Acceptance Criteria.**
* Involved in prioritizing the **product backlog item** with reference to the **MVP** criteria using **MoSCoW** and **Kano** model.
* Created **wire frames** and **mockup screens** as part of **GUI requirements** using various GUI design tools.
* Analyzed requirements and created **use case documents, use case diagrams, activity diagram and sequence diagrams**.
* Planned and defined system requirements to use cases, use case scenarios and **use case narrative** using UML methodologies.
* Experienced in **Data Mapping, Data Profiling, Data Integration, Data Migration and Metadata Management Service**.
* Skilled in **Data Modeling** concepts with expertise in creating **Entity-Relationship Diagrams** using **Star** and **Snowflake** Schemas, **FACT** and **FACT-less dimension Tables** and **Conceptual and Logical Modeling** of the database.
* Experience in **Data Integration** using **Data center** with **Hub** and **Spoke Architecture**. Extensive knowledge of **Databases**, **Data Table structures** and **multidimensional** analysis of data such as **Roll-up, Drill-down, slice and dice** and **pivot.**
* Expertise in **Data Warehousing** concept including **Meta data, Data Marts, OLTP** operation and **OLAP** cube analysis.
* Assisted in managing **ETL (Extract, Transform, Load)** jobs, **incremental** and **full extraction, transformation** and **load testing.**
* Assisted testers in conducting **Integration Test, Smoke Test, Regression Test, Sanity Test, Build Test and Load Test.**
* Experienced in creating **Test Plans, Test Cases, Test Scenario, Test Scripts and Requirements Traceability Matrix (RTM).**
* Worked with Busines Users on **User Acceptance Testing (UAT)** by monitoring the functional aspect of the software.
* Logged defects in **JIRA** tool and monitored the **defects** throughout its **Defect (Bug) Life Cycle** and coordinated with the **Testers, Development Team** and **Project Manager** to resolve the issue in a timely manner.
* Experience with a various suite of **AWS cloud services** like **EC2, S3 bucket, DynamoDB and Lambda.** Created users and groups using **Identity Access and Management (IAM)** and assigned policies, created **AWS Multi-Factor Authentication (MFA)** for different user groups. Assisted in creating a simple **CloudWatch** alarms that sends **SNS.**
* Working knowledge of **Big Data management** with **HDFS**, **Apache Hadoop, Apache Hive, Spark** and **MapReduce**.
* Generated **PL/SQL** scripts to retrieve **database objects,** **table views, primary and foreign keys and sequences.**
* Experienced in writing and manipulating **SQL** queriesfor **Stored Procedures, Cursors, User-defined Functions, Database Triggers** and **Nested Queries**, strong skills in **database testing** and writing the **SQL Test** queries.
* Performed enterprise **BI analysis, Business solution analysis** and generated **reports** such as **Static Reports, Ad-hoc Reports, Interactive Dashboards, Scatter Plots, Bar and Pie Charts** using **Tableau and Power BI.**
* Experience with diverse set of programming languages such as **JavaScript, AngularJS, NodeJS, Python, Spring Security** and **Shell Scripting** with **Linux Commands**. Well-versed in file handling of **XML, JSON** and **YAML** files.
* Experienced in **scripting** and **Documenting APIs** with **Swagger Hub** and **Postman** as per **OpenAPI 3.0 Specification**.
* Performed **API Testing** in **POSTMAN**, solid understanding of **RESTful architectural constraints** and **SOAP API protocols**.
* Experienced in **RESTful** architecture **web service** testing, validated **JSON, YAML** and **XML** formatted scripts for a different **HTTP response** status code such as **200, 300, 401, 404 and 500 in** **Postman** and **SoapUI**.
* Involved in **Client-Side** and **Server-Side** access validation of **API end points** using **POSTMAN** for **request and response protocols**, performed **CRUD** operation methods on **APIs** such as **GET, POST, PUT** and **DELETE**.
* Good knowledge about establishing a **JDBC connection** between the application and the database, working knowledge of **Spring Security framework** in establishing **authentication** and **role-based authorization**.

DOMAIN KNOWLEDGE

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| --- | --- |
| Financial Instruments | Equities and derivatives, Private Equity, ETFs and Mutual fund, Blockchain, Asset management, Wealth management, Investment Banking and Portfolio Management. |
| Compliance and Regulations | SEC, AML, FINRA, FDIC, SIPC, Basel Accord, Bank Secrecy Act, SOX, Patriot Act, Depository Trust and Clearing Corporation, Suspicious Activity Report, Customer Due Diligence (CDD), Customer Identification Program (CIP), Know Your Customer (KYC). |

TECHNICAL SKILLS

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| --- | --- |
| Business Skills and SDLC Methodologies | Waterfall, Agile methodology – SCRUM, KANBAN and XP. Requirements gathering, Change management. Valuation and pricing, budgeting, Financial reporting. |
| Process Flow Modeling Tools | MS Visio, Lucid Charts, StarUML, starmockups |
| Data Modeling and Mapping | Erwin Data Modeler, MySQL. Entity – Relationship diagram, Conceptual, Logical and Physical data modeling, Star/Snowflake schema. |
| Data warehouse | Data mapping, Data Mining, Integration, Multi-dimensional analysis, Slicing/Dicing, Roll-up/Drill-down, Pivot tables, Metadata Repository Manger, Data Marts. |
| Database Management | MySQL, MS SQL Server, PL/SQL, PostgreSQL and SQLite |
| ETL Tool | MS SSIS, Informatica PowerCenter, Talend |
| Data Analysis | Tableau, Power BI, MS Excel, IBM Cognos. |
| Scripting Language | JavaScript, HTML, CSS, AngularJS, Python, NodeJS, Spring, Shell Scripting, Linux Command Syntax, XML, JSON and YAML. |
| Web Services and APIs | Amazon Web Services, EC2, S3, AWS Lambda, DynamoDB, IAM, Microservices, HTTP and HTTPS method, RESTful API, SOAP API, POSTMAN, OpenAPI 3.0, Swagger 2.0. |
| Project Management | JIRA, Confluence, MS Project, Micro Focus. |



PROFESSIONAL EXPERIENCE

FREDDIE MAC, McLean, VA *April 2020 – Till Date*

*Sr. Business System Analyst*

Involved in developing a **Transaction Logging System** for various security transactions executed through a series of **inter-connected application** within the organization for **managing and troubleshooting errors** that occurred during the transaction of financial instruments. Some of the transactions included **buying and selling US equities, ETFs, bonds and mutual funds, payment processing, updating billing information.** System would give an **end-to end view** of every transaction that occurred during execution and would reveal to the user as to where exactly the error has occurred.

**RESPONSIBILITIES:**

* Collaborated with **Project Manager, Product Owner, Architects, SMEs and The Development Team** considering the broader cross-functional dependencies, involved in analyzing the **technical** and **business feasibility** of the requirements specification.
* Performed **GAP analysis** to understand the **AS-IS** model and a **TO-BE** business model.
* Functioned as a liaison between users and the different teams **(Transaction monitoring,** **Trade execution, Order processing,** **payment processing etc.)** involved in the application development for better understanding of the IT process.
* Elicited requirements from **stakeholders**, **business users** and the organizational personnel who manages transactions.
* Identified project level requirements, high level **process flow diagrams**. Analyzed, modified and documented **Functional Requirement Document (FRD) and Software Requirement Specification** (**SRS)** document.
* Established a vast amount of knowledge in **Trade Order Management System** and **Trade Order Execution Mechanism.**
* Worked with the back-office team in **transaction management**, **compliance, trade capture** and **reporting**.
* Actively participated in slicing the **Epics** into **User Stories** using **INVEST** criteria by collaborating with Product Owner and Development Team, helped development team understand the user stories from the end user perspective.
* Helped product owner prioritize the **Product Backlog Item** using **MoSCoW** with reference to the **MVP** criteria**.**
* Used **JIRA** tool to track the activities of the project,define and review the **Acceptance Criteria,** tracked **defect life cycle** management, generated **automated task reminders** and documented the development teams’ feedback to create actionable items.
* Used **Confluence** for team collaboration, created new pages to share new ideas with the team, documented the latest and important product specifications for everyone to stay updated about the product, created calendars for project roles and responsibilities.
* Created **Wireframes** and **mockup screens** using **starmockups tool** to provide the user the look and feel of the user-interface.
* Created use case diagrams, **sequence diagrams**, **activity diagrams and Business Process Flow Diagrams** using **MS Visio** and **Lucid Charts** software to design and analyze the behavior and interactions of the system.
* Created a mockup screen for **timeline diagram** with a **timestamp** to visualize the **end-to-end view** of the transaction as well as to **identify the applications** involved in the execution of the transaction.
* Performed **auditing** of the various application log files in the transaction, reviewing for the **disparate data formats** and collated data in an intuitive manner, reviewed scripts for manipulating the source data and verify the data quality.
* Reviewed the system for different types of **error codes** in application which causes the transaction failure.
* Created data **mapping documents** in **Excel**, ensured that **attributes** of **source data** and **target data** are defined and mapped.
* Participated in updating the **dimensional data model** and identifying the attributes **Facts and Dimension tables.**
* Assisted in improving the data integrity by performing **denormalization** and **data validation** to maintain the data accuracy.
* Assisted ETL engineers in transforming the data to the **Amazon Redshift** **data warehouse** and assisted in monitoring the **ETL** job process and maintained records for overseeing the **batch transformation and load** process.
* Assisted testers in writing and executing **test cases, test scripts and manual functionality test of web pages** including **HTML** code check. Helped testers understand the test scenario, performed **UAT testing** with users and reviewed **load** and **spike** test results.
* Collated the **RESTful architectural API documentation** using **Swagger UI** to render the application data from the web service as per **OpenAPI 3.0** Specification tool. Worked with different file formats such as the **XML, JSON** and **YAML**.
* Involved in implementing a centralized **web-based Service Oriented Architecture (SOA)** application infrastructure to engineer the **Transaction Log System** in order to provide the online data access and save time.
* Involved in managing the AWS Cloud Services such as EC2, S3 Bucket, AWS Lambda, and RDS. Created and assigned policies using **AWS Identity Access and Management (IAM)** andconfigured **Multi-factor Authentication (MFA)** for users.
* Wrote complex **SQL queries** such as **inner** **joins, left and right joins, aggregation functions, nested queries, stored procedures and triggers** to extract the data from the target system for performing **data analysis** and to **generate reports.**
* Created interactive reports like such as trade success and failure rate of applications involved in the transaction, Latency reports for each of the application and user satisfaction reports using **MS Excel** and **Power BI.**

**ENVIRONMENT:** Scrum-Waterfall Hybrid, MS Office 2019, MS Project 2019, JIRA, Confluence, Tableau, Talend, MS SQL, JavaScript, ASP.NET, AngularJS, NodeJS, Spring Security, Amazon Web Service, Amazon Redshift, HTTPS, RESTful API, JSON, YAML.

AMERIPRISE FINANCIALS, Minneapolis, MN *February 2019 – Mar 2020*

*Sr. Business Analyst.*

Project aims at developing a system for **computing a portfolio allocation evaluation** by developing **a risk profile for an identified portfolio;** selecting a **benchmark model portfolio;** identifying set of metrics for comparison of both the identified portfolio and the benchmark portfolio. This method leads to evaluation of the **deviations** associated with the portfolio in comparison to the model portfolio and **generates a report** of observation based on the risk profile, and providing, via the **interactive interface, customized insights and solutions** for each of the observation.

**RESPONSIBILITIES:**

* Performed **Impact Analysis, SWOT** and **GAP Analysis** to identify the opportunities and threats of business venture
* Designed and implemented **Portfolio Supervisory System**, including **market research, trend analysis, forecasting returns** and i**nterface for risk management,** conducted **cash-flow analysis** on customer’s account focusing on portfolio performance.
* Maintained and updated **state-of-the-art Enterprise Content Management System** for documenting and effective reuse of the information regarding market trend analysis and portfolio research.
* Established a great depth of knowledge in **Equities, Derivatives, Mutual Fund, Fixed income, Futures and Options pricing.**
* Sliced **Epics** into **User Stories** by applying the **INVEST** criteriawith a defined **Acceptance Criteria**.
* Tracked and managed product backlog items using **JIRA tool**, worked with product owner to define the **Acceptance Criteria** for each of the item in the Product Backlog. Also, interacted with the development team to identify the dependencies.
* Created **use case documents, activity diagrams** to understand the behavior and interactions between the system.
* Created **mockup screens** and **wireframe diagrams** for customer’s feedback on the functionality of the software.
* Briefed development team regularly about **Vertical Slicing** of the story as far as the functional delivery is concerned.
* Worked with **Product Owner** during the **Sprint Planning Meeting** for a **PSPI (Potentially Shippable Product Increment)** at the end of the sprint cycle. Also, assisted in defining a rigorous **definition of done (DOD)** at different levels of the product.
* Assisted data architects in identifying the attributes of the data model for **conceptual and logical modeling** of the database and created a **data mapping document** for backend database.
* Actively participated in various testing of the system during **Integration Testing,** **Regression testing, Black box and White box testing.** Assisted testers in writing **Test Cases** and **Test Scenarios** and document the **test results**.
* Performed **User Acceptance Testing (UAT)** from the end-user perspective, reviewed and documented the results.
* Participated in tracking bugs and generatied issue related reports using Test Director.
* Kept track of **Sprint Burn-Down/Burn-Up Chart** and **Release Burn-Down/Burn-Up** Charts to monitor the project activity.
* Created various types of visual reports for individual portfolio performance**,** customer satisfaction and success rate using **Tableau**.
* Wrote complex SQL queries such as **inner** **joins, left and right joins, aggregation functions, stored procedures and database triggers** to extract the data from the target system to generate and analyze various reports.
* Written **XML** and **JSON** scripts for accessing the data, performed **web API** testing such as **RESTful** and **SOAP APIs** in **SoapUI** tool and documented the results.

**ENVIRONMENT:** SCRUM, JIRA, MS Office 2019, Confluence, Micro Focus, XML, JSON, YMAL, JavaScript, HTML, CSS, PostgreSQL, SQLite, Tableau, RESTful API, SoapUI, OpenAPI 3.0.

CREDIT SUISSE, Morrisville, NC *November 2017 – January 2019*

*Business System Analyst.*

The scope of the project involved migrating the enterprise data from a **non-distributed local storage environment** to a **distributed storage environment on cloud** using **Apache Hadoop.** These distributed storage environments include plurality of **storage nodes that store data** within the distributed storage environment. This implementation shall make the **scalability** a lot simpler while providing the reliability for storing the data. Further, the distributed network provides an ease of access to **analysis, transparency and enhanced reporting capabilities**.

**RESPONSIBILITIES**:

* Strived to identify requirements by analyzing documents, conducting interviews and JAD sessions with various stakeholders.
* Gathered technical insights from **System Architects** and **Enterprise Architects** and documented the requirements.
* Created a **process flow diagrams**, **process mapping** and **business process flow diagram** using the **MS Visio**.
* Identified the **big-data source** for transforming the data to **non-distributed storage environment**, performed **data profiling** to check for **redundancies** in the data and monitored Hadoop clusters using **Apache, Cloudera distributions**.
* Assisted in creating the **Conceptual, Logical and the physical ER diagram** and designing database schemas such as the **star** and **snowflake** schemas to help develop a **database cluster**.
* Created a **data mapping document** to ensure that the attributes of source data and target data are defined and mapped.
* Produced **scripts to manipulate the source data,** collated and aggregated the large amounts of **web log data** from different sources such as web server, mobile and network devices using **Apache Flume** and maintained an accurate record**.**
* Created a metadata specification document for the **storage nodes of distributed network storage system**.
* Worked on **HDFS, Hadoop and MapReduce** and **SQL-like** big data query language **Apache Hive**.
* Involved in leveraging the **Big Data** open-source libraries like **Hive, Spark** and **Pig** to operate with **HDFS.**
* Involved in importing data from **MS SQL Server, MySQL** and **Teradata** into **HDFS** using **Sqoop.**
* Tested **raw data** and executed performance scripts and assisted with **data capacity planning** and **node forecasting**.
* Performed **code review, testing, test case review** and **test result review** for newly created and modified data components.
* Documented **cloud service provider API, Virtual Machine management APIs** including various requests such as **HTTP, HTTPS, REST** using **swagger, c**reated API documentation using **POSTMAN** for various API methods.
* Supported testing team during **Integration, UAT,** **Regression testing and API testing**, mapped tests to requirements.
* Performed **Data Mining** to find correlations and patterns by performing **data analytics in Power BI tool.**
* Generated **dashboards** and **statistical visual reports** such as **bar, line and scatter plots** to provide insights about the business.
* Wrote **DB2 PL/SQL static and dynamic Stored Procedures, Indexes, Triggers, Sequences**. Also, involved in performing **database backup and recovery**.

**ENVIRONMENT:** Agile Scrum, Hadoop, HDFS, MapReduce, Hive, Pig, Sqoop, Dockers and Containers, MySQL, DB2, SQL spark, Data Frames, Virtual Machine, Cloudera, RESTful API, JAVA, Shell Scripting.

FEDERAL BANK, New Delhi, IN  *May 2015 – July 2017*

*Business System Analyst*

The scope of the project was to develop **a computer-readable media** for enhancing a various **automated processing** of loan documents. The automated processing includes **electronic processing of loan documents, quality assessment** to determine the accuracy of information included in the loan documents, tracking and managing to **determine the quality of the loan package.**

**RESPONSIBILITIES:**

* Developed good understanding of **banking application** such as **customer account initiation**, **onboarding,** **loan and payments.**
* Worked with **project manager** and stakeholder to identify the requirements and use cases to develop a functional specification.
* Review **Commercial Loan Documentation** to ensure enhancements are meeting the **proper audit standards**
* Elicited the business requirements for the project using **interviews, workshops, document and interface analysis**.
* Involved in analyzing and documenting **Business Requirements** and developing **System Specifications.**
* Interacted with customers and internal stakeholders to gather requirements and their expectations from the system to create Business Requirement Document (**BRD),** Functional Requirement Document **(FRD)**. Created **UML Diagrams**.
* Assessed business priorities and advised business units by performing **Risk** **Analysis.**
* Participated in Scrum ceremonies **Product Backlog Grooming, Sprint Planning, Review** and **Retrospective** meetings.
* Assisted the **Product Owner** in **prioritization of user stories** using techniques like **MoSCoW**, Business value based and assisted the **Scrum Master** in facilitating **scrum ceremonies** and user stories estimation using **T-shirt sizing** technique
* Assisted the **Product Owner** in defining the **Acceptance Criteria**, **Definition of Ready (DoR)** and **Definition of Done (DoD)** for the user stories. Used **Rally** for assigning and managing tasks to monitor the team’s progress.
* Assisted in **API documentation** using **Swagger** and **API testing** using **Postman** and generated **reports** using **Power BI**.
* Participated in the development and preparation of the **Test Plan, Test cases and Test scenarios** with the testing team as well as ensuring testability, reliability, usability, maintainability, and performance of the application. Facilitated and coordinated in conducting the **User Acceptance Testing (UAT)** with the stakeholders.

**ENVIRONMENT:** Agile-Scrum, HP QC, Rally, MS SQL Server, MS Office, MS Power BI, Swagger and Postman.

INDUSIND BANK, Mumbai, IN  *December 2013 – April 2015*

*Business Analyst*

The project aimed at implementing the **expedited credit approval** and **lending** for an applicant who **pre-qualifies** by obtaining the predetermined **application identification information** from the database and transmitting the applicant’s information to the loan processor computer which verifies the applicant’s information without pulling the credit score report.

**RESPONSIBILITIES:**

* Determined User, Business and Functional Requirements.
* Involved in preparation of **High-Level Document** and **Low-Level Document** and their reviews.
* Performed GAP and Risk Analysis of existing system and evaluated benefits of new system.
* Conducted Joint Application Development (**JAD**) sessions with stakeholders throughout SDLC to resolve open issues.
* Assisted regional **KYC Business Support Units (BSU)** leads in production of timely and accurate MIS reporting and escalation.
* Worked with gathering requirement from stake holders and **SME** (Subject Matter Expert) by interviewing them, also prepared questionnaires and receive their feedback.
* Performed **SQL** queries operation such as **DML** and **DDL** commands for data extraction and manipulation.
* Worked with QA team to design test plan and test cases for User Acceptance Testing (UAT).
* Coordinated work plans between project manager and client using MS Project.
* Production release Coordination & Implementation support.

**ENVIRONMENT:** Waterfall, MS Word, MS Excel, MS Visio, SQL, Oracle, Rational Clear quest, Rational Rose, SharePoint, HP QC.

STANDARD CHARTERED BANK, Mumbai, IN *October 2011 – November 2013*

*SQL Developer*

The scope of the project was to build an **Enterprise Reporting System** to support **Portfolio Management and performance analysis of credit card system.**

**RESPONSIBILITIES:**

* Developed good knowledge of **Credit risk and Enterprise risk** management.
* Performed various **DDL and DML SQL** commands on the credit data for fetching and analyzing the data.
* Assisted in conducting **risk assessments** including **AML, OFAC and Sanctions** to reduce **inherent risk** using applicable **internal controls** and making sure the **policies and procedures** are in place to ensure **minimal residual risk**.
* Used **SQL** queries to fetch and analyze the data and **MS** **SQL Server Reporting Services (SSRS)** for generating reports.
* Experienced in gathering user's requirements and system analysis, converted it into system design document and **data modeling**, implemented the application with **stored procedures, views, functions and triggers**, worked with users to create test cases in QA testing, trained users, and provided system maintenance support.

**ENVIRONMENT:** Waterfall, MS SQL Server, SSRS reporting, SharePoint, MS Office (MS Excel, MS Word, MS PowerPoint).

EDUCATION

Bachelor of Engineering – Ramaiah Institute of Technology, Bangalore.