

SATHIYASARATHY N C

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EDUCATION

Bachelor of Engineering in Electronics and Instrumentation – Anna University

Majors: Electronics, Instrumentation, Software Development, Data structures

April 2011

WORK EXPERIENCE

Integration Data Engineer – Tata Consultancy Services, US / Canada / Malaysia / India

May 2015 – Current

- Developed and optimized data pipelines using **Azure Data Factory** and Spark to process large-scale datasets from various sources.
- Collaborate with stakeholders in managing KRONOS timekeeping, payroll, scheduling, and accruals in UKG Dimension.
- Experience with **Power BI Service**, including publishing reports, setting up data gateways, managing workspaces, and sharing dashboards securely with stakeholders.
- Build **DAX functions** to perform various calculations for efficient data visualization in Power BI.
- Implemented **Power BI** dashboards with relational and multidimensional data, incorporating advanced calculations and statistical analysis.
- Define data warehouse structures such as star and snowflake schemas, fact tables, dimensions.
- Build **SSIS** packages for extracting, transforming, and loading data from various sources, including **SQL DB**, into the data warehouse.
- Create dashboards with relational and multidimensional data, incorporating advanced calculations and statistical analysis.
- Experience in connecting BI application to various data sources such as SQL databases, Excel spreadsheets, SharePoint lists, APIs, and cloud platforms like Azure and GCP.
- Strong knowledge of SQL and SSIS for data extraction, transformation, and validation within complex ETL pipelines and data warehousing environments.
- Led multiple data migration projects from legacy systems to modern platforms, overseeing the entire process from planning to execution.
- Developed and optimized data pipelines using **Azure Databricks** and Spark to process large-scale datasets from various sources.
- Design, develop, and maintain Data Warehouses and Data Lakes to ensure seamless storage and access to structured and unstructured data.
- Apply DevOps (CI/CD) practices for automating and streamlining the development, deployment, and maintenance of data solutions.
- Actively involved in Scrum Agile methodology, participating in Sprint Planning, Refinement, Daily Stand-ups, and Retrospective Meetings.
- Prepare ad hoc reports and views frequently, offering support in understanding, researching, and analyzing business issues.
- Utilize data-driven insights to predict trends in the customer base and consumer populations using advanced analytics techniques.
- Perform statistical analysis of data to derive meaningful conclusions and support business strategies.

Business Intelligence Developer – Gain Insights Solutions, Bengaluru, India

June 2013 – Apr 2015

- Performing ad-hoc reporting in support of business processes and data-driven decision making.
- Estimated and planned deliverables to ensure timely completion of tasks and project milestones.
- Developed Proof of Concepts (POC) in Qlik View and interacted with clients to discuss and refine new business logic.
- Enhanced applications based on user feedback and changing business requirements to ensure alignment with needs.
- Configured user-level data security in Qlik administration to ensure proper access controls and data privacy.
- Maintained overall quality and timeliness of deliverables from the Offshore team.
- Actively involved in Global definition, preparing Requirement Solutions Documents (RSD), Test Strategy Plans (TSP), test scenarios, and test cases, as well as evaluating the product.
- Conducted Functional and Regression Testing to ensure the system met user expectations and business requirements.
- Reported testing status to clients and participated in defect meetings to track and resolve issues.

- Interact with onsite team to understand client requirements and Build Data Model
- Implemented multilevel section access to restrict data to different level users.
- Fixed the Bugs related to review of defects.
- Responsible for the overall quality and timeliness of deliverables from Offshore
- Provided support for User acceptance Testing and provided Knowledge Transition to business users.
- Involved in Test case review as well as Internal & External Quality Audit process.
- Developing the UI QlikView Application for generating weekly and monthly reports.
- Execution of Test Cases and updating the Result in test director.
- Fixed the Bugs related to review of defects.
- Involved in Test case review as well as Internal & External Quality Audit process.

PROJECTS

Financial Dashboard – Powe BI, Qlik, SQL, Azure, DAX Function, SSIS

- Categorization of expenses into Planned amount, Actual amount, Accruals Expense, Authorized Expense and tracking expense status by Region, District, and Account group.
- Designed and deployed reports with Drill Down, Drill Through and Drop-down menu option- Parameterized, and Linked reports.
- Created **DAX functions** for various fact calculations for efficient data visualization.

System Analytics Dashboard – Power BI, Python, SQL, Oracle

- Developing SSIS Packages to Extract, Transform and Load (ETL) data into the Data warehouse from Heterogeneous databases such as Oracle.
- Implemented **row-level security** protocols in Power BI, ensuring data governance based on user roles.
- Developed a real-time **Power BI dashboard**, capturing critical sales metrics including YTD Total Sales and YOY Growth.

HRM Accrual / Time keeping Dashboard – Tableau, Python, Azure / GCP, SSIS /SSRS /SSAS

- Developed **Power BI** dashboard using the Tabular Data Modeling from **SSAS** (SQL Server Analytic Services) featuring combination charts for presenting **KPIs**.
- Integrating diverse visualization types such as Stacked Bar Charts, Clustered Bar / column Charts, Donut Charts, Maps, Slicers, Dual-Axis line graph and Data Blending techniques for comprehensive data representation.
- Implemented action filters, parameters, and calculated sets to enhance dashboard and worksheet preparation.

SKILLS

Languages: Python, SQL, Golang

Tools & Platforms: MS Excel (VLOOKUP, Pivot Tables), Power BI / Qlikview (Dashboard creation), Git (Version Control), Google Sheets, Boomi Integration, Kronos UKG Dimension.

Methodologies: Agile (Agile practices and principles), ETL (End-to-end data pipeline creation), Advanced Analytics (Predictive modelling, Dimension Data Modelling, Regression analysis, Clustering, Classification), Snowflake.

Cloud Platforms: Google cloud Platform, Azure, Google Big Query.

ACHIEVEMENTS & CERTIFICATIONS

- **Google Data Engineer Certified** - Professional Cloud Data Engineer Certification.
- **Google Cloud Consultant** - Associate Cloud Consultant.
- **Qlik Certified** - BI Qlik Developer and Designer Certification.
- **Big Data Certified** - Big Data and Hadoop Ecosystems Foundation