ARJUN MOHAN KUMAR

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EDUCATION

Illinois Institute of Technology, Chicago, IL
Masters in Computer Science
Anna University, India
B Tech in Information Technology

SKILLS

Informatica IDMC:	C360 SaaS, CDGC, CDI and CDQ		
AWS:	Lamda, S3, Redshift, AuroraDB, EC2, DynamoDB, AWS Glue		
Google Cloud:	Data Catalog, Dataplex, Cloud Composer, BigQuery, Looker Studio		
Programming Languages:	Java, C, C++, Python, JavaScript		
Database Management:	SQL, NoSQL, Oracle	**Frameworks:**	Lambok, Grok
DevOps:	Docker, Linux, Git	**Other:**	Machine Learning, NGINX, Software testing

WORK EXPERIENCE

Data Analyst

RCTECH Solutions, Austin   Oct 2024 - Present

- **Informatica MDM Implementation for Aerospace Client:**
  - Spearheaded the implementation of Informatica Master Data Management (MDM) to centralize critical data assets (customer, reference, supplier, and product data) for a Major Aerospace client.
  - Addressed data inconsistencies arising from the lack of a unified MDM system, leading to improved data accuracy and decision-making.
  - Designed and configured the MDM solution to provide a single source of truth, enhancing operational efficiency and data-driven insights.
- **Cloud Data Governance and Catalog (CDGC) Implementation:**
  - Led the implementation of Informatica's Enterprise Data Catalog and Data Privacy Management (CDGC) to establish a comprehensive data governance framework.
  - Developed a standardized data glossary, governance processes, and policies to ensure data quality, privacy, and compliance.
  - Enabled clear understanding of data lineage across the organization, improving data traceability and accountability.
- **CDGC Change Control System Automation:**
  - A secure, efficient framework for managing Informatica CDGC metadata assets across different environments has been successfully developed and implemented.
  - The challenges of manual change tracking, potential inconsistencies, and lack of robust version control in multi-environment setups have been effectively resolved through the accelerator.
  - Implementing a comparison tool to analyze two backups, help identify necessary rollbacks or modifications.
  - The complexity and error-proneness of managing governance assets (like terms, policies, rules) consistently and safely across Development, QA, and Production environments have been streamlined.
  - Automating the rollback process by using Postman API calls to apply selected sheets for rollback actions.
  - An operational application designed to automate and streamline the export, comparison, import, and migration of these critical assets has been deployed.
- **Data Quality and ETL Development:**
  - Implemented an AI-driven parser to extract and define business terms from compliance documents, converting them into Informatica import sheets for enhanced data governance.
  - Built scalable ETL pipelines using Informatica CDQ and Java-based automation for efficient data ingestion, transformation, and integration.
  - Designed and implemented RESTful APIs to facilitate seamless communication between data management systems and applications.
  - Developed backend services using Java and SQL, optimizing data processing, transformation, and integration workflows.
  - Implemented Data Quality Scorecards (CDQ) to monitor and improve data quality across the enterprise.
  - Optimized database queries and indexing strategies to enhance performance in handling large datasets.

- **Collaboration and Support:**
  - Collaborated with cross-functional teams, including software engineers and data analysts, to deliver high-performance data-driven solutions.
  - Provided ongoing support through a Hybrid Managed Service model, ensuring continuous optimization of the data management infrastructure.

Key Technologies: Informatica MDM, CDGC, CDQ, Java, SQL, RESTful APIs, ETL, Data Governance, Data Quality, Postman API

Application Specialist

Informatica, Austin   May 2023 - Aug 2023

- **IDMC Lifecycle Monitoring Tools Development:**
  - Focused on the development and implementation of tools to enhance monitoring of the Informatica Data Management Cloud (IDMC) platform lifecycle across various products.
  - Significantly improved the efficiency of IDMC lifecycle monitoring, providing enhanced visibility into application events and streamlining troubleshooting processes.
- **IDMC Platform Optimization:**
  - Optimized the IDMC platform's web infrastructure to improve reliability, traffic distribution, and responsiveness.
  - Implemented proactive health checks for Informatica webpages within the IDMC environment.
- **IDMC Security Enhancement:**
  - Implemented security protocols within the IDMC platform, leveraging AWS OpenSearch, to ensure compliance with data governance policies and protect sensitive information.
  - Enhanced security through the configuration of role-based access control (RBAC) and authentication mechanisms within IDMC.
- **IDMC Log Management and Visualization:**
  - Improved data accessibility within IDMC by enabling the visualization of performance logs through charts and tables, facilitating data-driven decision-making.
  - Streamlined log management processes within the IDMC platform.

Key Technologies: Informatica Data Management Cloud (IDMC), AWS OpenSearch, Linux, Git.

MDM C360 SaaS Consultant

Eminent Technology Solutions, Coimbatore   Jan 2022 – Aug 2022

- **MDM Implementation for Healthcare Client:**
  - Led the implementation of Informatica MDM to centralize product, service catalog, and branch data for a major healthcare customer.
  - Addressed data inconsistencies and inefficiencies by establishing a centralized system, ensuring data consistency across the organization.
  - Enhanced the customer's ability to maintain robust data governance, improving the reliability of data for decision-making.
- **C360 SaaS and CDGC Configuration:**
  - Contributed to the configuration of Informatica C360 SaaS and Cloud Data Governance and Catalog (CDGC) to establish a centralized master data and metadata governance framework.
  - Assisted in configuring data models, workflows, and governance rules within C360 SaaS and CDGC, ensuring a unified 360° view of customer data.
  - Developed and optimized data lineage tracking, metadata classification, and automated policy enforcement within CDGC.
- **Data Integration and Collaboration:**
  - Integrated C360 with external data sources, improving data traceability, profiling, and compliance with governance policies.
  - Collaborated with enterprise data teams to standardize data quality metrics, cataloging, and security policies.

Key Technologies: Informatica MDM, Informatica C360 SaaS, Informatica CDGC.

Data Management Consultant

ConnectIcons Technologies Private Limited, Chennai   Jan 2021 – Dec 2021

- **Enterprise Data Governance Strategy and Implementation (IICS):**
  - Led the strategic implementation of Informatica Cloud Data Governance and Catalog (CDGC) within the Informatica Intelligent Cloud Services (IICS) platform for a large enterprise client, focusing on establishing a robust foundation for data governance.
  - Conducted in-depth analysis of the client's existing data landscape, identifying key challenges and opportunities for improvement in data governance.

- o Designed and implemented comprehensive metadata management strategies within IICS, encompassing automated tracking, classification, and lineage processes to provide the client with a holistic understanding of their data assets.
- o Developed and deployed custom data governance frameworks and workflows within IICS, tailored to the client's specific business needs and regulatory requirements, significantly enhancing their ability to enforce compliance policies, improve data accessibility, and ensure enterprise-wide data visibility.
- **Data Quality and Compliance Management (IICS):**
  - o Engineered and delivered comprehensive compliance dashboards within IICS, providing stakeholders with clear, actionable insights into data quality trends, governance adherence, and access control audits.
  - o Established data quality metrics and monitoring processes within IICS to proactively identify and address data quality issues, ensuring the reliability and accuracy of information across the enterprise.
  - o Collaborated with cross-functional teams, including data stewards, business analysts, and IT personnel, to define and implement data governance policies and procedures within the IICS environment.
  - o Provided guidance and training to client personnel on data governance best practices and the effective use of IICS and CDGC tools, fostering a culture of data ownership and accountability.
- **Continuous Improvement and Optimization (IICS):**
  - o Continuously monitored and evaluated the effectiveness of implemented data governance solutions within IICS, identifying areas for optimization and improvement.
  - o Developed and implemented enhancements to data governance workflows and processes within IICS to further streamline operations and improve efficiency.
  - o Stayed abreast of the latest developments and best practices in data governance and IICS technology, proactively recommending and implementing innovative solutions to meet the client's evolving needs.

Key Technologies: Informatica Intelligent Cloud Services (IICS), Informatica Cloud Data Governance and Catalog (CDGC).

CERTIFICATIONS

- Informatica Cloud Data Quality Implementation Practitioner
- Informatica MDM C360 Saas Implementation Practitioner
- Informatica CDGC Implementation Practitioner
- Informatica MSM Saas Foundation Level Certification
- Informatica IDMC Foundation Level Certification
- Informatica CDGC Foundation Certification
- Informatica Data Engineering Certification
- Informatica PC-MOD Foundation Level Certification
- Atlan Starter Program
- Atlan Product Essentials
- Atlan DataOps Essentials
- Databricks Accredited Databricks Essentials

PUBLICATIONS

Weapon Detection in Surveillance System (IJERTV10IS050077)   May 2021
- The paper presents an automated weapon detection system for surveillance purposes using the YOLOv3 deep learning algorithm. The system is designed to identify and classify handguns, knives, and heavy guns in real-time video feeds, providing an alert mechanism to security authorities for crime prevention. The implementation improves detection speed and accuracy over traditional region-based convolutional neural network (R-CNN) approaches.

VOLUNTEER EXPERIENCE

Open Source Contributer - OpenMetadata   Jan 2024 - Present
- Active contributor to OpenMetadata, testing features, reporting critical bugs, and enhancing product stability.
- Collaborate with the open-source community to improve metadata management, data governance, and data quality solutions.

Open Source Contributer – Ladybird Brower Initiative   Nov 2024 – Present
- Actively testing pre-release versions of the Ladybird Browser in macOS, identifying and documenting software bugs to enhance browser stability and performance.
- Collaborated with developers and other contributors on Discord channels, providing detailed feedback and participating in discussions to troubleshoot issues and implement solutions.