Aashish Aryal

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PROFESSIONAL SUMMARY

Results-driven Data Engineer with 4+ years of experience designing, developing, and optimizing data pipelines, cloud architectures, and analytics systems across the healthcare, gaming, and enterprise SaaS industries. Proven expertise in building ETL workflows, data integration solutions, and governance frameworks using modern cloud and DevOps technologies. Adept at developing scalable data models, implementing data security and compliance standards (HIPAA, FINTRAC), and creating real-time dashboards that enhance decision-making. Strong collaborator skilled in bridging technical and business teams to deliver secure, high-performance, and insight-driven data systems.

TECHNICAL SKILLS

Programming & Scripting	**Python (Pandas, PySpark), SQL, JavaScript, Apex, Java**
Data Engineering & ETL	AWS Glue, Snowflake, Redshift, Airflow, MySQL, ETL Automation
Cloud Platforms	AWS, Azure, Salesforce Platform
Databases	MySQL, Snowflake, Amazon Redshift, SQL Server
Data Visualization	Tableau, Power BI, React.js Dashboards, LWC Components
APIs & Integrations:	REST APIs, Flask, Node.js, Express.js, Salesforce APIs
DevOps & CI/CD:	Jenkins, Git, GitHub, Bitbucket, Docker
Security & Compliance:	HIPAA, FINTRAC, PHI Encryption, Authentication, Access Control
Big Data & Frameworks:	PySpark, Lakehouse Architecture, Data Warehousing, Data Quality Frameworks
Tools & Others:	Jira, Confluence, JSON, Agile/Scrum

CERTIFICATIONS

- **AWS Certified Cloud Practitioner |** AWS – (Issued Sep 2025 · Expires Sep 2028)
  Credential ID: **c2e6ccaa5f5f49c2b12163e9d02f782a**
- **Microsoft Certified: Azure Data Fundamentals |** Microsoft — Issued Sep 2025
  Credential ID: **E39866D864E8A444**
- **Salesforce Certified Platform Foundations** | Salesforce — Issued Oct 12, 2025
  Credential ID: **6836350**

PROFESSIONAL EXPERIENCE

Data Engineer/Information System Specialist   **Jan 2024 – Present**
Rama Gaming House | Mississauga, ON

- Engineered and maintained casino management software with real-time slot machine tracking, boosting operational visibility by 40%.
- Built React.js and Node.js dashboards to visualize player and slot data, streamlining system monitoring and performance insights.
- Designed and optimized MySQL player databases with indexing and normalization, improving query performance by 35%.
- Automated daily revenue reporting using SQL-based data extraction and PDF generation pipelines, cutting manual effort by 60%.
- Integrated third-party gaming platforms via REST APIs, improving interoperability and data exchange efficiency by 30%.

- Developed pattern-based anomaly detection models to enhance fraud detection and reduce suspicious activities by 25%.
- Implemented encryption protocols and secure authentication workflows, ensuring compliance with FINTRAC standards.
- Built AML transaction reporting modules to automate compliance checks and reduce reporting errors by 20%.
- Collaborated with system vendors and internal IT teams to troubleshoot slot machine issues, ensuring uninterrupted gameplay.
- Managed jackpot payout verification and reporting to OLG, ensuring accurate, secure, and timely payments to winners.

Salesforce Data Engineer   **Sept 2022 – Dec 2023**
Compliance Quest | FL, USA

- Designed and optimized Salesforce data models to support scalable storage, analytics, and multi-org data integration workflows.
- Engineered ETL pipelines between Salesforce and external systems using REST APIs, automating synchronization and reducing manual reporting by 40%.
- Developed Apex Triggers, Flows, and Process Builders to enforce business logic, automate data transformations, and maintain data integrity.
- Built dynamic LWC and Aura components to visualize key performance indicators and pipeline metrics in real time.
- Collaborated with DevOps teams to manage CI/CD pipelines via Jenkins, ensuring seamless metadata deployments and controlled releases.
- Optimized system workflows by retiring legacy automation tools and migrating to Flow Builder, improving performance by 50%.
- Implemented SOQL and SOSL query optimizations to enhance data retrieval speed and reduce query execution time.
- Partnered with cross-functional teams—Data Analysts, QA, and Business Operations—to ensure consistent and validated data governance.
- Ensured data compliance with CRM security policies by implementing field-level encryption and access control rules.
- Produced detailed technical documentation and process flow diagrams to support future system maintenance and onboarding.

Data Specialist   **Nov 2021 – Jan 2022**
Cloud Factory | NC, USA

- Partnered with a U.S.-based healthcare analytics client to design and optimize ETL and data integration pipelines for large-scale healthcare and financial datasets.
- Designed and modeled dimension and fact tables in Amazon Redshift, enabling scalable and high-performance data warehousing for business intelligence and reporting.
- Developed and maintained automated data pipelines using Python, SQL, and AWS Glue, improving data processing efficiency by 30% and reducing pipeline failures by 20%.
- Assisted in migrating Spark-based ETL workflows to a Lakehouse architecture leveraging Amazon S3 (Parquet) and AWS Glue Crawlers for automated metadata cataloging.
- Built Flask RESTful APIs to enable advanced OLAP query execution across warehouse and Lakehouse environments, supporting analytics and dashboard automation.
- Collaborated with senior data engineers and BI analysts to optimize SQL queries, enhance maintainability, and streamline ETL processes through peer code reviews and refactoring.
- Ensured HIPAA compliance during data ingestion and transformation by implementing encryption, anonymization, and audit trails for PHI (Protected Health Information).

- Worked cross-functionally with Data Engineering, BI, and Product teams to deliver reliable, accessible, and compliant data solutions that improved reporting accuracy and decision-making.
- Contributed to data validation frameworks ensuring end-to-end integrity and traceability across multiple AWS environments.
- Supported process documentation and data flow mapping to improve onboarding efficiency and maintain consistent engineering standards.

Data Engineer Intern & Associate Data Engineer   **May 2020 – Oct 2021**
Cedar Gate Technologies | CT, USA
Key Project: Healthcare Claims ETL Pipeline (HIPAA-Compliant) — designed a scalable AWS-based data pipeline that automated data ingestion, transformation, and loading into Snowflake while ensuring PHI encryption and access control.
- Developed and maintained ETL pipelines for healthcare data ingestion using Python, SQL, and AWS Glue, automating data extraction and transformation from multiple EHR (Electronic Health Record) systems into centralized data warehouses.
- Designed and optimized data models and relational schemas in MySQL and Snowflake, improving query performance and storage efficiency by 40%.
- Built data validation frameworks using Pandas and PySpark, ensuring accuracy and consistency across millions of patients and claim records.
- Created and deployed automated data quality dashboards in Tableau and Power BI, delivering real-time insights into healthcare KPIs such as patient readmission rates and claim processing times.
- Collaborated with cross-functional teams to maintain HIPAA compliance, implementing access control, encryption, and audit trails for sensitive healthcare data.
- Supported CI/CD workflows using Jenkins and Git, deploying and monitoring data pipeline updates with robust version control practices.
- Documented end-to-end data flow architectures and contributed to internal data governance policies, enhancing data traceability and compliance with privacy regulations.

SOFT SKILLS

Analytical Thinking & Problem-Solving	Attention to Detail & Data Accuracy
Cross-Functional Collaboration	Communication & Stakeholder Engagement
Adaptability in Fast-Paced Environments	Project Management & Prioritization
Critical Thinking & Decision-Making	Process Optimization & Continuous Improvement
Team Leadership & Mentorship	Accountability & Ownership

EDUCATION
Full Stack Software Development   Jan 2024 – Aug 2025
Lambton College, North York, ON

Bachelor of Computer Engineering   Nov 2017 – Apr 2020
Tribhuvan University, Kathmandu, Nepal

REFERENCE AVAILABLE UPON REQUEST