Ravin G

Senior Data Engineer | Data Architect | Al & Big Data Engineer

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Professional Summary

Accomplished Senior Data Engineer with 7+ years of experience in designing and building scalable, high-performance data solutions. Proven expertise in Data Architecture, Big Data engineering, and Al-driven data platforms. Adept at transforming complex data systems into actionable insights through cloud-native architectures, real-time processing, and machine learning. Strong background in delivering business value through innovative solutions, enhancing data security, and ensuring compliance (GDPR, HIPAA, SOC2). Skilled in leading cross-functional teams, optimizing costs, and enabling predictive and prescriptive analytics.

Core Skills

- Data Engineering & Architecture: ETL/ELT with Airflow, dbt, Talend, CDC; large-scale data pipeline automation; dimensional modeling (Star, Snowflake, Data Vault).
- Big Data & Cloud Platforms: Azure (Synapse, Data Factory, Databricks, Data Lake), AWS (Redshift, Glue, Lambda, EMR, Kinesis), GCP (BigQuery, Dataflow, Vertex AI).
- AI & Machine Learning: ML model deployment, automated pipelines, AI-based anomaly detection, RAG (Retrieval-Augmented Generation), vector search (FAISS, Pinecone).
- Analytics & BI: Power BI, Tableau, Looker; self-service dashboards, KPI reporting, advanced analytics.
- **Programming & Automation:** Python, SQL, Scala, R, Java, Bash; Terraform; CI/CD with Jenkins, GitHub Actions, Azure DevOps.
- Data Security & Compliance: IAM, encryption, tokenization, regulatory compliance (GDPR, HIPAA, SOC2).
- Cloud-Native Infrastructure: Kubernetes, Docker, Helm, serverless architecture; observability with Prometheus, Grafana, Datadog, Monte Carlo.
- Business-Focused Delivery: Translation of technical solutions into business value, enhancing ROI and compliance for US clients.

Professional Experience

Senior Data Engineer | DataNova Solutions

July 2023 - Present

- Designed and deployed real-time streaming data pipelines with Kafka and Flink, enabling predictive analytics and enhancing decision-making for US-based healthcare and retail clients.
- Led migration efforts from on-premise to cloud-native platforms (Azure, AWS), resulting in a 40% reduction in operational costs and a 30% improvement in scalability.
- Developed end-to-end data governance frameworks ensuring compliance with HIPAA and SOC2, significantly improving security and regulatory adherence.
- Enhanced ETL/ELT pipeline performance using dbt and Apache Airflow, resulting in a 25% increase in processing speed and reliability.

- Collaborated with business and technical stakeholders to implement secure, cost-effective data solutions, driving a 15% reduction in cloud storage costs.
- Spearheaded the development of a data pipeline for processing over 10TB of data daily, supporting real-time analytics for a global e-commerce client, reducing data latency by 50%.
- Automated data quality checks and validation using Python and SQL, reducing manual data correction efforts by 75% and ensuring high accuracy in downstream systems.
- Developed a secure data-sharing framework using end-to-end encryption and tokenization, ensuring compliance with data privacy regulations (GDPR, HIPAA).

Data Engineer | Illumina Technology Solutions

July 2020 - June 2023

- Led the modernization of data lakes using Delta Lake and Apache Iceberg, improving data storage efficiency by 50% and query performance by 35%.
- Designed and implemented OLAP solutions with Snowflake and ClickHouse to enable near real-time data analysis, improving reporting speed by over 60%.
- Developed and deployed self-service BI dashboards using Power BI and Looker, empowering business users to generate insights without relying on IT.
- Integrated ML-based anomaly detection into data pipelines, improving data quality and reducing data errors by 40%.
- Led the transition of legacy systems to cloud-native environments (Azure, AWS), enhancing agility and reducing operational costs.
- Integrated Apache Kafka and AWS Kinesis for real-time data processing, enabling faster analytics and reducing data retrieval time by 60
- Created and optimized automated data validation frameworks, significantly improving data consistency and quality, which led to a 30% reduction in data errors.

Associate Data Engineer | Transcure

April 2018 - June 2020

- Developed automated ETL workflows using Airflow and dbt, improving data processing efficiency and reporting speed.
- Designed KPI dashboards for finance and healthcare clients, enabling actionable insights for better decision-making.
- Enhanced query performance by 30% through indexing, partitioning, and caching, optimizing data retrieval.
- Contributed to data governance framework design, ensuring regulatory compliance and audit readiness.
- Created alerting and monitoring tools with Prometheus and Grafana, reducing pipeline down-time by 20%.
- Built custom API services for seamless data integration between external systems and internal databases.

Education

B.Sc. in Computer Science