

Kwakyee Ebenezer

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Profile

Dynamic senior data leader with 8+ years of experience in cloud-native data engineering, enterprise architecture, and operational analytics. Proven track record of leading high-performing teams to build secure, scalable, and high-performance data platforms using AWS, Azure, Databricks, Snowflake, and SQL Server. Deep expertise in PySpark, modern ELT design, data governance, and distributed computing. Skilled in translating business needs into technical solutions, guiding architectural decisions across infrastructure and pipelines, and aligning data systems with strategic goals. Trusted advisor to senior leadership and cross-functional teams, with a strong focus on performance optimization, platform integration, and stakeholder communication.

- Recognized by **LinkedIn** as a Top Data and Business Intelligence Voice.
- **Data Architecture and Analytics Expert:** Proficient in designing and managing enterprise-level data warehouse solutions using cloud technologies such as AWS, Azure, Databricks, and Power BI.
- **Project Management and Leadership:** Skilled in full lifecycle delivery of complex data initiatives using Agile methodologies to meet evolving business needs.
- **Strategic Business Intelligence Advisor:** Proven ability to translate business-driven issues into robust data analytics solutions, providing actionable insights and strategic advice to stakeholders.
- **Stakeholder Engagement and Communication:** Strong consultative and advisory skills, with a proven history of building and maintaining effective business relationships and facilitating collaboration across diverse teams.
- **Advanced Analytics and Visualization:** Highly skilled in utilizing advanced analytics tools, including Excel, Access, VBA, SAS, R, Python, SSRS, SPSS, STATA, ArcGIS, Alteryx, SQL, Power BI (DAX Formulas and Functions), Cognos, Tableau, and Looker for data extraction, analysis, and visualization. Proficient in cloud services (Azure, AWS, GCP, Snowflake) and data migration.
- **Demonstrated Soft Skills:** Collaboration, problem-solving, consensus-building, mediation skills, meticulous relationship management, action-oriented mindset, effective communication skills, excellent people skills, organization and planning, honesty and integrity, efficiency.

Technical Skills

- **Software:** MS Office Suite (Excel, Access, Word, PowerPoint, MS Project, Visio, Teams, Outlook, SharePoint), SAS, R, SPSS, STATA, ArcGIS, MATLAB, VBA, Looker, Cognos, Power BI Desktop, DAX, SSIS, SSRS, Airflow, Azure DevOps, Teradata, GitHub, Microsoft Fabric, Purview, Terraform.
- **Cloud Services:** Azure (Data Factory, Data Lake Storage, Synapse, Databricks, Azure SQL, Key Vault, Azure ML, Event Hub, APIM), Snowflake, AWS, GCP.
- **Databases:** SQL Server, Oracle DB, Azure SQL, Hadoop, BigQuery, Hive, Teradata.
- **CRMs and ERPs:** Salesforce CRM, SAP S4/Hana, JD Edwards.
- **Languages :** C#, Java, Bash, SQL (T-SQL, PL-SQL), HiveQL, Python (Pandas, NumPy, PySpark), .NET (ASP.NET MVC, WinForms).
- **Methodologies:** UML, OO, RUP, Iterative, SDLC, Waterfall, Agile, IT Architecture.

Professional Work History

Solutions Architect – Secure Data Integration, Ministry of Solicitor General April 2025 – Present

- Lead architecture and transformation of high-sensitivity correctional data systems, ensuring compliance with privacy, audit, and data governance frameworks.
- Bridge policy and engineering teams by advising on data quality, secure integration patterns, and compliance-driven architecture decisions across frontline operations.
- Support long-term platform integrity through the development of secure ingestion workflows, governance controls, and data validation standards aligned with ministry objectives.

Solutions Architect, Ontario Ministry of Children, Community and Social Services Aug. 2024 – April 2025

- Led the architecture and delivery of an enterprise-grade, AWS-native data platform leveraging Databricks (on AWS), PySpark, Glue, S3, IAM, and Redshift to support large-scale analytics, policy reporting, and operational optimization.
- Designed modular, high-performance PySpark pipelines using the medallion architecture pattern to handle full and incremental data ingestion across millions of records with structured and semi-structured sources.
- Applied AWS security best practices including fine-grained IAM roles, KMS encryption, VPC endpoint isolation, and Secrets Manager integration, ensuring platform compliance with PIPEDA and internal audit requirements.
- Collaborated with product owners, finance, and compliance teams to translate high-level business requirements into scalable data architecture, balancing performance, cost, and maintainability.
- Established CI/CD pipelines using GitHub Actions and AWS CodePipeline to automate deployment of data infrastructure, ensuring version control, secure credential rotation, and testing standards.
- Drove cloud cost optimization across the stack by tuning Databricks clusters, enabling auto-scaling, enforcing tagging for FinOps visibility, and reducing idle resource spend.
- Documented all architectural decisions, data lineage, and compliance processes using AWS Glue Catalog, internal wikis, and governance playbooks to support long-term audit readiness.
- Led a high-performing team of four engineers, providing architectural guidance, mentoring, and code reviews to ensure engineering excellence and consistent delivery standards

Solutions Architect – Data & Analytics (AWS), Ontario Ministry of Health April 2024 – August 2024

- Architected AWS-native data infrastructure to support cross-ministry Equity, Diversity & Inclusion (EDI) analytics, enabling secure, scalable, and policy-aligned reporting systems.
- Designed dimensional models and ingestion pipelines using Redshift, S3, and AWS Glue, optimizing for performance, schema consistency, and executive reporting needs.
- Powered enterprise dashboards in Power BI using backend data hosted in AWS, surfacing representation and pay equity insights for HR leaders and Assistant Deputy Ministers.
- Advised Strategic Business Units on secure design patterns, KPI alignment, and architecture standardization, supporting unified data strategy across ministries.
- Built a feedback analytics engine using S3, Lambda, and QuickSight, tracking participant experience across 8 province-wide events and analyzing responses from over 1,500 stakeholders.
- Enforced cloud governance and compliance through IAM policy design, encrypted S3 storage, and audit-ready tagging for security and accountability.

Professor, Business Intelligence & Data Platforms, Stanford College January 2024 – Present

- Designed and led a hands-on Business Intelligence program focused on enterprise data architecture, ETL pipelines, multi-cloud infrastructure (Azure, AWS, GCP), and data governance.
- Designed and lead a hands-on Business Intelligence & Data Architecture program, preparing students for enterprise roles through practical training in AWS-native tools including Redshift, Glue, S3, IAM, and cost governance frameworks.
- Built and delivered solution modules on cloud-native data engineering, emphasizing multi-cloud design patterns, ETL pipelines, and modern data governance architectures across AWS, Azure, and GCP.
- Mentored students on enterprise-grade use cases involving Databricks on AWS, cost modeling (TCO, ROI, cost-per-service), and performance optimization through resource right-sizing and workload tuning.
- Taught hands-on labs in SQL Server, Databricks, Synapse Analytics, Power BI, Tableau, Hadoop, and BigQuery with an emphasis on cross-platform data integration and architecture tradeoffs.
- Guided students on designing cloud analytics solutions aligned with stakeholder KPIs, security models, and reporting needs — simulating real-world consulting and platform assessment scenarios.

Instructor, Policy, York University

September 2023 – April 2024

- Instructed a class of one hundred final-year students on the proficient use of statistical tools such as SPSS, SAS, and R, significantly enhancing their capabilities to conduct data analysis for their policy research projects.

Senior Solutions Architect - Data Platforms, Stryker Medical

August 2022 – September 2023

- Led end-to-end architecture design for data platforms across sales, logistics, and operations, translating business goals into scalable, cloud-native solutions on AWS and Databricks.
- Built real-time analytics workflows using PySpark, Databricks, Snowflake (AWS), and Power BI, supporting \$18.4B in 2022 revenue and strategic growth to \$20.4B in 2023.
- Directed the data migration strategy from JD Edwards to SAP S/4HANA, deploying Databricks-based ELT pipelines aligned with enterprise performance and TCO targets.
- Integrated Snowflake on AWS with ingestion pipelines via S3, enabling unified analytics across structured and semi-structured data sources.
- Designed modular data models, enforced pipeline governance standards, and improved query efficiency across departments.
- Collaborated with finance and platform teams to evaluate cloud cost tradeoffs, including Redshift vs. Snowflake scaling, and Power BI licensing tiers.
- Presented architectural roadmaps and data-driven insights to senior leadership, accelerating executive decisions and securing adoption of new platforms.
- Served as a technical authority on architecture tradeoffs, performance optimization, and compliance alignment, contributing to platform maturity and engineering standards.

Research Data Analyst, Western Michigan University

January 2021 – December 2022

- Conducted data analysis and research projects using SPSS and Microsoft SQL Server, contributing to a 25% increase in data-driven decision-making.
- Supported academic research by designing data workflows using SQL Server and R, improving data availability and reproducibility for multiple grant-funded projects.
- Provided technical guidance to professors and graduate students on data modeling, logic frameworks, and cost-benefit analysis for policy research.
- Applied statistical techniques using SPSS, SAS, and R to analyze large datasets, improving turnaround time for insights by 30%.
- Collaborated with IT and research staff to enhance database reporting tools, streamlining access to institutional data resources.

Solutions Architect - Data Analytics, Center for Democratic Development

January 2020 – December 2020

- Designed a centralized cloud analytics platform using Snowflake and AWS-aligned pipelines, integrating real-time data from over 2,000 mobile election observers.
- Migrated observation data, UN/ECOWAS partner feeds, and mobile survey inputs into a unified warehouse, improving donor reporting efficiency by 50%.
- Built geospatial dashboards with Power BI and ArcGIS to visualize election risk, regional disparities, and governance outcomes.
- Defined data governance standards and cross-border metrics in collaboration with international partners, ensuring compliance and data alignment across jurisdictions.
- Conducted evaluations using logic models, cost-benefit analysis, and geospatial data to inform strategic donor funding.
- Delivered internal training on Snowflake, Power BI, and cloud workflows, increasing in-house capacity for cloud-native reporting.

Solutions Architect – Data & Reporting Systems, St. Augustine International

June 2015 – July 2019

- Supervised a small team of IT and reporting staff, ensuring timely delivery of reports and data quality initiatives.

- Architected a centralized data reporting system using SQL Server and Power BI, replacing legacy workflows with a scalable platform aligned to institutional KPIs.
- Pioneered early cloud migration strategy, prototyping solutions with AWS S3 and Python to support long-term scalability and storage optimization.
- Led data lifecycle design and validation efforts across 10+ years of academic and operational data, achieving 99% accuracy and establishing trusted datasets for leadership use.
- Managed a small data engineering team, driving best practices in ETL design, report automation, and platform maintenance.
- Delivered organization-wide training and change management, increasing self-service reporting adoption by 80%.
- Acted as the primary architectural advisor to senior administrators, aligning reporting infrastructure with strategic priorities across education, finance, and operations.

IT Tutor, St. Augustine International

July 2014 – June 2015

- Created and implemented comprehensive modules to educate students on a range of IT subjects, including Excel, Coding, Networking, Hardware setup, Security, Infrastructure and Data software installation, patch management, and cybersecurity awareness.

Volunteer Experience**Director, Analytics**, Canadian Association of Urban Financial Professionals September 2023 – Present

- Spearhead strategic initiatives to expand organizational outreach and engagement, leveraging data-driven insights to identify opportunities for growth.

Policy Research Analyst Lead, Toronto Youth Cabinet

September 2023 – Present

- Guide and oversee policy research initiatives at the Toronto Youth Cabinet on Youth related issues such as Newcomer Youth Integration, health, education, etc. Representing approximately 625,456 youths in Toronto.

Education & Certification

Ph.D. Policy, AI & Big Data Analytics	York University	2026
M.Sc. International Development Economics: Statistics	Western Michigan University, U. S	2022
B. A Geography (GIS) & Political Science	University of Ghana	2019
Diploma General Studies: Information Technology	Prempeh College	2014
Certificates:		
FinOps Certified Practitioner	FinOps Foundation	2025
AWS Databricks Platform Architect	Databricks	2025
GCP Databricks Platform Architect	Databricks	2025
Azure Databricks Platform Architect	Databricks	2025
Platform Administrator	Databricks	2025
Cloud Computing Economics	LinkedIn	2025
Project Management	TestDome	2025
Data Engineering	TestDome	2025
Python Data Science	TestDome	2025
MS SQL Server	TestDome	2025
Power BI	TestDome	2025
Tableau	TestDome	2025
Hadoop	TestDome	2025
PSM - Professional Scrum Master		2023
PMI - Agile Project Leadership		2023
PCI DSS Practitioner	Cybrary	2023
Endpoint Security Fundamentals	Cybrary	2023
HIPAA Compliance Program	Cybrary	2023
Certified Vulnerability Specialist	Qualys	2023
USAID - Data Use for Program Mangers.		2019