Lawrence Karongo
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Relevant Experience

04/2024 – 01/2026 **Business Intelligence Engineer II – Fulfillment Technology AI, Amazon**

- Developed executive-facing QuickSight dashboards with self-service capabilities, enabling stakeholders to explore operational, business, and model performance data independently, reducing ad-hoc reporting requests by enabling data-driven decision-making.
- Designed and put into production in Redshift data models specific to KPI monitoring and dashboarding given iterative stakeholder feedback.
- Buit a data model specific to a damage detection Computer Vision model deployed in Fulfillment Centers across NA (North America) and EU (Europe) worth an entitlement/cost savings over $10 million a year.
- Implemented ROI and forecasting simulations to model entitlement gains and long-term business impact, guiding strategic prioritization and supply chain resource allocation across fulfillment centers and SHV1, Amazons Flagship facility.
- Produced the key analysis identifying the core metric needs for NA and the Flagship facility detrimental to automated Inventory Control Quality Assurance process, with an entitlement across NA over 1 billion dollars
- Defined and owned core QuickSight KPI frameworks for supply chain inventory for item image coverage, applying experimental analysis and causal reasoning to quantify incremental impact and justify leadership a $1 million dollar investment.
- Designed and implemented AWS Glue and Spark Framework ETL pipelines, unifying multiple S3 and data lake sources to support supply chain metric production, experimentation analysis, and QuikSight dashboard automation.
- Productionalized Spark SQL pipelines to deliver timely data model outputs aligned with program requirements, ensuring data reliability for downstream analytics and leadership QuickSight reporting.
- Delivered multiple critical and high visibility QuickSight analytical products focusing of Computer Vision across three domains in six months, demonstrating strong prioritization, cross-functional communication, and end-to-end ownership.
- Onboarded to the Amazon Cline Visual Studio extension for GenAi collaboration while building datasets using Airflow DAGs.

06/2022– 04/2024 **Business Analyst II – Selling Partner Services, Amazon**

- Collaborated closely with immediate and cross functional team to redesign antiquated data model for critical Seller Satisfaction metric, producing datasets with fact tables and dimension data
- Produced QuickSight dashboards and maintained feedback loop with stakeholders for metric updates and continued reporting needs.
- Conducted customer (seller) journey and funnel analysis using behavioral data to identify friction points and conversion opportunities, informing product and engagement strategy.
- Developed a large-scale NLP sentiment data model integrating open-text models to surface behavioral signals enabling targeted interventions based on member feedback patterns and reported in QuickSight.
- Built automated metric deviation alerting tool improving operational response times and enabling proactive issue identification.
- Conducted ANOVA and regression-based analyses to evaluate predictive power of trailing metrics on seller satisfaction, strengthening forecasting accuracy and engagement modeling.
- Designed and maintained ETL pipelines supporting experimentation, feature engineering, and automated QuickSight reporting across multiple business lines.

01/2026 – Present **Analytics Engineering – Independent Contractor, LK Data Solutions**

- Started own LLC and retained first major client, supporting their data needs for Amazon Delivery Services across Spokane Washington
- Architected and deployed end-to-end data model automating DOT compliance monitoring for trucking operations, processing weekly timecard data through S3, Lambda, Glue, Athena, QuickSight workflow with EventBridge Orchestration
- Engineered PySpark ETL pipelines implementing complex DOT regulatory business logic including rolling 7-day hour calculations, consecutive workday detection, and breaktime violation tracking across multiple aggregation levels (shift, daily, weekly).
- Designed semantic layer in QuickSight with 15+ KPIs and level aware aggregations, enabling self-service exploration of overtime trends, violation patterns, and drive compliance status across configurable date ranges.
- Implement incremental data processing with merge/upsert logic using shift-level composite keys and timestamp-based deduplication, ensuring accurate historical tracking while supporting retroactive timecard corrections.
- Built production-grade data quality controls including multi-format timestamp parsing (handling inconsistent CSV exports), PTO hour normalization, and role-based filtering to maintain data integrity across pipeline stages.
- Delivered fully automated compliance monitoring system enabling real-time violation alerts and reducing manual timecard review overhead for fleet management.
  Leveraged Claude Code (GenAi) to automate tasks.

Other Experience

06/2020 – 06/2022 **Institutional Data Analyst, Charles R. Drew University of Medicine and Sciences**

- Extracted and processed data from university-wide systems and survey tools for exploratory data analysis.
- Monitored, predicted and reported on student enrollment, retention, and graduation rates.
- Ran classification models to identify missing data for reporting purposes.
- Created data visualizations and presentations for institutional executive management.
- Maintained data repository for year-round National Center for Education Statistics (NCES) reporting.
- Power BI Dashboard implementation and ETL production and maintenance.
- Supported creation of institution data warehouse.
- Data engineering – transforming flat files into dynamic workflows to pipe into databases and feed reports.

08/2018 – 06/2020 **Data Scientist, East Bay Community Law Center (EBCLC)**

- Sole analyst and modeling expert for the “Keep Oakland Housed” Collaborative on behalf of EBCLC.
- Provided recommendations on organization-wide policy and process improvement through data evaluation.
- Curation of data capturing methods for foundation and government grants reporting and research.
- Implementation of regression analyses determining factors impacting housing, and homelessness.
- Statistical approaches applied to understand potential outcomes due to free/clinical legal representation.
- Identified proper case management for org wide use and was technical lead on the data capture curation process (intake) as well as data migration.
- Persuaded leadership to invest initial $70K on case management system with an additional yearly investment of $12K to drive proper data collection for robust analytical approaches.

- Built Python applications to support story telling for geographical housing impacts and to support further ad hoc data capturing.

06/2017 – 07/2018 **Management Analyst, Minnesota Department of Transportation**
08/2014 – 05/2017 **Graduate Research Assistant**, **University of Minnesota Twin Cities**

Education

University of Minnesota Twin Cities
Master of Public Policy

University of Minnesota Twin Cities
Bachelor of Science, Applied Economics

Tech Stack & Skills

QuickSight, Python, Power BI, SQL, Tableau, PySpark, AWS Glue, A/B Testing, Redshift, Funnel Analysis, S3, Seller & Customer Analytics, Athena, AWS Bedrock, SageMaker, Segmentation, Simulation, Cline AI Coding, Claude Code