MAX COURSEY

Cloud *Data Engineer*

Transforming business challenges into data-driven solutions. Expertise in leading teams, building cloud data platforms, and driving impactful cost-saving initiatives. Proven collaborator delivering measurable results with GCP and its Vertex AI suite, and open-source/managed distributed pipeline frameworks. Seeking senior role to leverage expertise and shape data-driven organizations.

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Cloud/Big Data Skills

Python	Docker
GCP	Bash
Airflow|Beam	Jira
Vertex AI	PySpark
Bigquery	Terraform
SQL(X)	Git
Dist. Comp.	Agile
Java	Airflow
AWS	Beam
JavaScript	Snowflake
Spark	Mongo
Strategy	Adaptability
Governance	Mentorship
Collaboration	Leadership

Education

Vanderbilt University | MSCS
Georgia Institute of Tech | BS

Certifications & Stuff

GCP MLOps Engineer (Aug. '24)
AWS Certified Dev ('19- '21)
Python PCAP Certified
LPI-Linux Certified
Alpinist, Mountain Biking, Dogs

Gordon Food Services | Data Science | Cloud Data Engineer | 2022 - Present

Data Product Delivery
- Ideated with leadership to implement a cost monitoring process using Dataform and Analytics Hub, providing curated, syndicated datasets for internal usage monitoring.
- Reduced pre-process/feature engineering time by @30% by designing and deploying dynamic SQLX Dataform pipelines for analysts, dashboards, and data scientists.

Optimization Tools
- Championed a shift in routing optimization from a static, black-box approach initiation of a sandbox environment to establish understanding of customer/product requirements impact on optimization.
- Developed 3-month roadmap, Implementing OSRM and OR Tools for advancing user knowledge while keeping costs minimal. Provisioned VMs to host frameworks with Bigquery connectors.
- Initiated weekly training, office hours for teams to ask questions, provide feedback, and document findings.

Pipeline Optimization
- Identified underperformed pipelines and implemented solutions, reducing preprocessing times by 90% (from hours to minutes). Included re-partitioning source tables, redesigning SQL queries, and implementing best coding practices to reduce latency and overhead.

Data Mesh
- Led the design and implementation of fine-grained access controls for PII data (Dataplex) in the data lake (BigQuery), significantly enhancing data governance.

Vanderbilt University | AI/ML Research Lab | Research Engineer | 2020 - 2022

Data Pipelines for AI/ML Research: Engineered ETL pipelines using PySpark and Pandas to prepare large diverse datasets for academic research and transportation monetization projects.

Model Training and Deployment: Provisioned and managed Linux-based virtual machines (VMs) running containerized model training and deployment environments. Developed ETL pipelines and dashboards on model results.

End-to-End Web Application: Developed a full-stack web application for managing on-demand shuttle operations, integrating real-time vehicle tracking, manual routing adjustments, and ML-based route optimization. Currently in production at the Chattanooga and Nashville DOTs.

Grant Thornton | Managing Consultant/Solutions Engineer | 2014 - 2019

Led Project Delivery Teams: Led Cross-Functional Project Teams: Managed the full lifecycle of business intelligence and custom software development projects, leading teams of 3-8 members.

Drove Financial Success: Developed project proposals, negotiated fees, and managed project budgets to ensure profitability. Coordinated billing processes and tracked project financials to meet financial goals.