James Kang

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Employment

Data Engineer — BILL — Feb 2022 - current

- Own and maintain batch and streaming pipelines ingesting from Oracle, MySQL, DynamoDB, and third-party sources into a centralised data platform
- Designed and scaled near real-time streaming pipelines using AWS Kinesis, Apache Kafka, Flink, Glue, Firehose, and EMR, enabling data freshness across AI, billing, risk, compliance, and finance teams
- Modernized legacy ETL workflows by upgrading AWS Glue, Airflow, and Spark, improving reliability, reducing job runtimes, and cutting operational overhead
- Drove AWS cost-optimization initiatives, achieving 20%+ quarterly savings through workload tuning, storage optimization, and scaling
- Developed monitoring, alerting, and automated quality checks for data pipelines, improving system reliability and ensuring high data accuracy
- Implemented secure cross-account IAM roles and data-sharing patterns, enabling safe and compliant access across internal teams and partner accounts
- Partnered with engineering, finance, risk, and compliance teams to deliver scalable data solutions that support analytics, reporting, and operational workflows

Software Developer — Avant — Oct 2020 - Feb 2022

- Delivered end-to-end features as a full-stack developer using Kotlin, RESTful APIs, Kubernetes, and React, improving system reliability and user experience
- Contributed across the software development lifecycle, from defining requirements to deploying finished products
- Worked with QA and development teams to enhance and automate testing processes, increasing efficiency and documentation quality
- Integrated machine learning algorithms into applications, helping reduce hiring costs by 30%
- Built and managed pipelines to deploy and maintain models smoothly in production
- Found and applied improvements that cut training time by 20% and boosted overall model quality and data accuracy
- Analysed data features to identify patterns and improve data quality, resulting in a 10% increase in model accuracy

Education

Eugene, OR — University of Oregon — 2020

- B.S. in Computer Science with a minor in Business Administration

Language and Technologies

- Python; Apache Spark; SQL; Terraform; Docker; Oracle db; Microsoft SQL server; Postgres; Dynamodb
- Apache Kafka; kinesis; Firehose; AWS; Airflow; Glue; EMR