Julie Murakami

Senior Data Engineer with 6 years of experience
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SKILLS

Languages: Python, Bash, SQL, Scala, Node JS (Ordered by Proficiency)
Technologies: AWS (Certified Solutions Architect, 2018), Terraform, Airflow, Datadog, Docker, Postgres, Pyspark, Pandas

WORK EXPERIENCE

Senior Data Engineer, *Adelaide Metrics* - New York, NY   *01/2023 - 10/2023*
Digital Media Marketing startup focused on Attention Metrics
- Developed a REST API using AWS API Gateway within a tight deadline to enable real-time integration of attention metrics for a high-stakeholder client's programmatic advertising bid process. AWS API Gateway was chosen for its rapid development, which was crucial for meeting the project's urgent timeline and upholding the company's edge of customer satisfaction.
- Partnered with Cloudnexa's consulting services to review and assess existing infrastructure, providing strategic guidance that maximized resource efficiency and reduced costs by 10%.
- Designed and implemented a robust ETL process to efficiently handle bulk exports daily from Looker, ensuring seamless integration into a customer-facing UI. This system was optimized for fault tolerance and reliability to accommodate for client needs, minimizing discrepancies and maintaining data integrity.
- Implemented automated builds for several models developed by data scientists, eliminating manual steps and reducing communication lags to significantly improve efficiency and provide useful slack notifications about the build process.
- Maintained and troubleshooted legacy data pipelines scheduled on Airflow to ensure consistent and reliable BAU data ingestion from 20+ partner sources. Implemented Slack alerts to monitor and uphold the quality of critical ETL data delivery pipelines for data analysts and the sales team.

Principal Data Engineer, *Capital One* - New York, NY   *12/2019 - 04/2021*
- Orchestrated a refactoring of the merchant information ETL process for seamless integration of transaction data with merchant information from third-party data sources like Factual, Foursquare, and Everstring. Spearheaded a team of four, fostering skill development and increasing project delivery speed by 40%.
- Led testing and accuracy validation for a novel in-memory matrix multiplication solution, which reduced database load and decoupled operations in a data pipeline processing millions of transactions daily, significantly improving efficiency and scalability.

Senior Data Engineer, *Capital One* - New York, NY   *07/2018 - 12/2019*
- Deployed a decision tree model into a production environment and created a data pipeline to automate the delivery of model results to downstream systems. This high-impact project improved reward allocation accuracy, strengthened the company's partnership with General Motors by demonstrating commitment to good practices, and earned the Circle of Excellence Award for its outstanding contribution.
- Applied the AWS serverless architecture model to enhance a data delivery pipeline used for real-time fraud detection, recurring transaction verification, and lost card verification. This solution leveraged decoupled serverless functions, resulting in cost savings and improved interoperability of functions. Led two hands-on training sessions to share best practices and operational insights with the horizontal engineering organization.

Associate Data Engineer, *Capital One* - Mclean, VA / Oakland, CA   *07/2016 - 07/2018*
- Ramped up on several AWS technologies including AWS Cloudformation, EMR, Redshift, and Kafka/Zookeeper to support the deployment and on-call needs of the enterprise data pipeline for collecting millions of mobile and web clickstream events in real-time and batch.
- Built a dashboard, alerts, and logging utilizing Datadog for end-to-end monitoring of the clickstream pipeline.

EDUCATION:

University of California, Los Angeles: B.S. Computer Science 2016