AMELIA MILLER

Senior Big Data Operations Engineer | Data Strategy | Tech Leadership

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SUMMARY

Experienced Big Data Operations Engineer with over 9 years in tech. Skilled in GCP, Hadoop, and Spark. Led projects reducing operational costs by 30% and enhancing system efficiency.

PROJECTS

Open Source Data Pipeline

Contributed to an open source data pipeline project for efficient data processing. GitHub: https://github.com/AmeliaMiller/data-pipeline

Automated Monitoring Framework

Developed a framework to automate performance monitoring for cloud applications. GitHub: https://github.com/AmeliaMiller/monitoring-framework

EXPERIENCE

Senior Big Data Engineer

DataTech Inc. 📅 09/2019 - Present 📍 Los Angeles, CA

- Led a team of 8 engineers to successfully migrate 70% of data workloads to Google Cloud Platform, resulting in a 30% reduction in operational costs.
- Implemented CI/CD pipelines using GitHub and Jenkins, achieving a 40% reduction in deployment times and ensuring seamless integration of code changes.
- Developed a real-time data processing application using Kafka and Spark, improving data throughput by 25% and minimizing processing delays.
- Established monitoring solutions with Grafana, decreasing response times to incidents by 20% through proactive alerting and dashboard insights.
- Collaborated with cross-functional teams to integrate Hadoop-based solutions in the data architecture, enhancing data accessibility and compliance.
- Managed and scaled Kubernetes clusters, providing a resilient infrastructure that improved service uptime by 99.9% for client-facing applications.

Big Data Developer

TechSolutions Corp. 📅 06/2016 - 08/2019 📍 Santa Monica, CA

- Designed and implemented scalable Hadoop workflows for data analytics, reducing data processing time by 50% across multiple departments.
- Optimized MongoDB queries, improving data retrieval speeds by 40% and enhancing overall user experience with database-driven applications.
- Conducted training sessions on Unix/Shell scripting for junior engineers, facilitating knowledge transfer and improving team competencies.
- Spearheaded a project to automate routine data cleansing tasks using Python scripts, saving an estimated 200 hours of manual work monthly.
- Mapped data migration plans from legacy systems to Cloudera, ensuring data integrity and compliance during transition phases.

Data Engineer

Innovate Analytics 📅 01/2014 - 05/2016 📍 San Francisco, CA

- Developed data pipelines using Apache Airflow, facilitating seamless data flow and effective reporting for business intelligence operations.
- Implemented Ansible scripts for environment configuration, enhancing deployment processes and aligning team efforts toward agile methodologies.
- Advised stakeholders on data strategy, resulting in improved decision-making processes and the implementation of innovative analytics solutions.
- Reduced data processing costs by 15% through the optimization of existing systems and the implementation of scalable solutions.

SKILLS

UNIX, Spark, Shell Scripting, Python, Hadoop, GitHub

EDUCATION

Master of Science in Computer Science

University of Southern California 📅 01/2012 - 01/2014 📍 Los Angeles, CA

Bachelor of Science in Information Technology

University of California, Berkeley 📅 01/2008 - 01/2012 📍 Berkeley, CA

LANGUAGES

English Native ●●●●●   Spanish Proficient ●●●●○