Morgan Williams

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Skills

Python, SQL, ETL, AWS, Airflow, Databricks, PostgreSQL, APIs, Linux, Data Pipelines

Experience

Data Engineering Consultant, CGI   Mar 2025 – Present

- Architected and deployed custom AWS Lambda connectors with Kinesis Data Streams integration, enabling real-time event-driven data streaming for critical business workflows processing 10M+ events daily and reducing data latency from hours to sub-second response times.
- Designed and implemented CI/CD pipelines using GitLab Pipelines, AWS CodePipeline, and CodeBuild with automated testing frameworks (pytest, unittest), reducing deployment time by 80%, eliminating manual errors, and enabling continuous delivery across 15+ microservices.
- Accelerated security vulnerability remediation from days to minutes by migrating 5 major projects to UV and Ruff, enabling rapid dependency updates and automated code quality checks while reducing package installation time by 10-100x and cutting CI/CD pipeline runtime by 60%.
- Provided ongoing production support and troubleshooting for data pipeline issues across 5+ enterprise client projects, leveraging CloudWatch monitoring and logging
- Modernized legacy ETL workflows to cloud-native architectures using Apache Airflow, Databricks, and AWS services (Lambda, S3, EC2, Glue), accelerating batch processing tasks by 100x-1000x through parallelization, automation, and serverless computing patterns.

Data Engineering Consultant, National Care Dental   May 2022 – Mar 2025

- Designed and implemented scalable data infrastructure and pipelines using AWS and Python, enabling faster business operations and enhanced data insights while cutting costs significantly
- Transitioned legacy workflows to modern data pipelines with automated testing and monitoring, accelerating tasks by 100x to 1000x through automation and reducing multi-hour processes to seconds
- Mentored data analysts in Python and SQL best practices, expanding their technical capabilities and establishing data quality standards and governance processes
- Built robust, observable data pipelines with comprehensive documentation and clear lifecycle standards, ensuring performance and reliability across all data operations

Senior Data Engineer, Persefoni   Aug 2021 – May 2022

- Implemented production-grade ETL pipelines in Databricks using Python and SQL for a rapidly growing climate-tech startup, applying solid engineering practices including testing and CI/CD
- Created scalable API endpoints in GoLang, collaborating across product and engineering teams to integrate multiple services and support business requirements
- Documented and established new processes for data pipeline operations, improving team onboarding and increasing overall productivity through knowledge sharing
- Partnered with stakeholders across operations and finance to turn business goals into measurable data solutions using modern cloud infrastructure

Software Engineer, Zelis Healthcare   Dec 2018 – Aug 2021

- Created and optimized ETL workflows in Airflow, improving data processing performance by up to 1000x through efficient pipeline design and implementation
- Migrated multiple legacy codebases to Python3, enhancing maintainability and establishing modern engineering practices including code reviews and version control
- Developed Python APIs and internal web interfaces using Flask, empowering business users across teams to meaningfully interact with company data and analytics

- Built data transformation pipelines that supported advanced analytics and reporting requirements for healthcare data processing

Projects

Resume   github.com/mrgnw/resume

online CV with automatic PDF generation

Multilingual translator   ananas.xcc.es

Translate to several languages at once using m2m language LLM

TextMe   textme.cc

Send WhatsApp & Telegram messages to a phone number

Education

BYU — BA in Russian Language & Literature   2014

vschool.io — Coding Bootcamp   2014