Morgan Williams

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Skills Python, PostgreSQL, JavaScript, Svelte, AWS, Linux, ETL

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.

Fullstack software architect, National Care Dental   May 2022 – Mar 2025

- Designed and implemented data infrastructure and pipelines, enabling faster business operations and enhanced data insights while cutting costs significantly.
- Transitioned legacy workflows to modern data pipelines, accelerating tasks by 100x to 1000x through automation, reducing multi-hour processes to seconds or milliseconds.
- Mentored data analysts in Python and SQL, expanding their skills and capabilities, resulting in a substantial increase in productivity.

Senior Data Engineer, Persefoni   Aug 2021 – May 2022

- Implemented ETL processes pipelines in Databricks for a rapidly growing climate-change startup
- Created API endpoints in GoLang, learning new tech & collaborating across teams to interface multiple services.
- Documented & created new processes to onboard, train, and increase teammate productivity.

Software Engineer, Zelis Healthcare   Dec 2018 – Aug 2021

- Created new ETL workflows in Airflow and optimized existing processing times up to 1000x.
- Migrated multiple codebases to Python3.
- Created Python APIs and internal web interfaces, empowering business users across teams to meaningfully interact with company data.

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

Education

BYU — BA in Russian Language & Literature   2014
vschool.io — Coding Bootcamp   2014