

# Morgan Williams

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**Skills** Python, ETL, SQL, SQLMesh, DuckDB, AWS, Spark, Airflow, Linux

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## Experience

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### 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

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### Resume

[github.com/mrgnw/resume](https://github.com/mrgnw/resume)

online CV with automatic PDF generation

### Multilingual translator

[ananas.xcc.es](https://ananas.xcc.es)

Translate to several languages at once using m2m language LLM

## Education

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

2014  
2014