

# WILLIAM GOODE

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## EDUCATION

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### Ph.D. in Mathematics

*University of North Texas* | 2023

*Dissertation:* Annihilators of irreducible representations of the Lie superalgebra of contact vector fields

4.0 GPA | Published in *Expositiones Mathematicae*

### B.S. in Mathematics, B.S. in Economics

*University of North Texas* | 2017

3.79 GPA, Cum Laude

## TECHNICAL SKILLS

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**Languages:** Python, SQL (BigQuery, MS SQL Server, PostgreSQL), C# / .NET

**Cloud & Infrastructure:** AWS (Lambda, S3, RDS, Athena), GCP (BigQuery, Cloud Storage, Cloud Run, IAM), Docker, Data ingestion pipelines

**Backend:** FastAPI, ASP.NET Core, Entity Framework, LLM integration

**Data Engineering:** Data pipeline development, Vector databases, Query optimization and performance tuning, Exploratory data analysis, Schema reconciliation

## EXPERIENCE

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### Backend Engineer

*Scaylor AI* | August 2025 – Present

- Developed and deployed a NL→SQL microservice on Google Cloud Run, featuring multi-dataset support, schema extraction, and robust security validation including PII masking and injection detection.
- Architected and implemented a GDPR-compliant data ingestion infrastructure using Terraform, including EU-only resource policies, customer-managed encryption keys (CMEK), and secure network configuration.
- Built a data unification tooling system for schema reconciliation and conflict resolution, incorporating a multi-panel interface, ERD visualization, streaming chat agent, and notebook execution capabilities.
- Led multiple infrastructure migration projects, including billing account consolidation, Workload Identity Federation for secure data source access, and migration of 18 GCP projects using Terraform.

### Software Engineer

*Concan Consulting Corporation* | April – June 2025

### Senior Lecturer of Mathematics

*Vanderbilt University* | August 2023 – August 2024

## PUBLICATION

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C. H. Conley, W. Goode. "An approach to annihilators in the context of vector field Lie algebras." *Expositiones Mathematicae* (2024). arXiv:2403.01728