

# 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*

- Designed, developed, and deployed a GDPR-compliant data ingestion infrastructure on GCP using Terraform, encompassing networking, encryption, and IAM configurations to ensure data residency and security.
- Architected and implemented a scalable NL→SQL pipeline on Google Cloud Run, leveraging Vertex AI and BigQuery for multi-dataset support, query validation, cost control, and unified CSV export.
- Led the development of a data unification platform featuring a Cursor-like IDE, ERD visualization, and streaming chat agent, enabling AI-powered schema reconciliation and data analysis.
- Spearheaded the secure ModWash POS data integration, encompassing Terraform infrastructure, Dockerized SQL Server processing, and Workload Identity Federation, achieving a 91.8% data match rate after temporal filtering.

### 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