

# 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

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

**Data Engineering:** Data pipeline development, Vector databases, DuckDB, MongoDB, Query optimization, Schema reconciliation

**Machine Learning:** SQL generation with LLMs, ML prototyping, scikit-learn, pandas

## EXPERIENCE

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### Backend Engineer

*Scaylor AI | August 2025 – Present*

- Architect and deploy data ingestion systems for client database integration
- Develop microservices for SQL generation and query execution
- Design and implement data workflows compliant with GDPR requirements
- Manage security and access provisioning across cloud infrastructure
- Execute database migrations and establish data ingestion pipelines
- Serve as technical point of contact for client integrations and onboarding
- Conduct technical interviews for engineering positions

### Software Engineer

*Concan Consulting Corporation | April – June 2025*

- Developed REST API for client applications
- Consulted small e-commerce businesses on technical best practices

## Senior Lecturer of Mathematics

Vanderbilt University | August 2023 – August 2024

- Taught calculus, statistics, and survey courses (6 courses total)

## PROJECTS

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### Data Pipeline Architecture

Evaluated and implemented GCS → BigQuery pipeline from scratch. Assessed multiple approaches (AWS Athena/Glue, DuckDB, MongoDB) before selecting GCP BigQuery based on scalability and cost requirements.

### Dynamic Data Visualization

Created local database in Microsoft SQL Server and connected to dynamic visualization web app using Dash and Flask.

### Containerized ML Deployment

Deployed machine learning models on Amazon ECS as containerized web applications.

## 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