

# William Goode

✉ [william.maverick.goode@gmail.com](mailto:william.maverick.goode@gmail.com)    [github.com/william-goode](https://github.com/william-goode)    [linkedin.com/in/william-goode](https://linkedin.com/in/william-goode)

## EDUCATION

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**Ph.D. in Mathematics**, University of North Texas 2023  
4.0 GPA · *Dissertation*: Annihilators of irreducible representations of the Lie superalgebra of contact vector fields

**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, TypeScript / JavaScript, SQL (BigQuery, PostgreSQL, MS SQL Server), C# / .NET
- **Cloud & Infrastructure**: GCP (BigQuery, Cloud Run, Cloud Functions, Cloud Storage, Firestore, IAM, Secret Manager, Vertex AI), AWS (Lambda, S3, RDS, Athena), Docker, Terraform
- **Backend**: FastAPI, ASP.NET Core, Entity Framework
- **Frontend**: React, TypeScript, D3
- **Data Engineering**: ETL / ELT pipelines, layered data architecture, query optimization, schema reconciliation, sqlglot, DuckDB
- **LLM Integration**: Multi-provider model integration (Anthropic, Google), tool use, prompt engineering, evaluation pipelines
- **Auth & Security**: OAuth, IAP, IAM provisioning, multi-environment secret management

## EXPERIENCE

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**Backend Engineer**, Scaylor AI August 2025 – Present

- Build and operate Python / FastAPI backend services on GCP Cloud Run, with infrastructure managed as code in Terraform
- Design and maintain BigQuery data pipelines spanning multiple upstream sources, organized into a layered architecture for ingestion, transformation, and downstream consumption
- Integrate large language models from multiple providers into production backends, including tool use, evaluation pipelines, and cost controls
- Build and ship features in a React / TypeScript frontend, including interactive data visualization with D3
- Implement authentication and authorization with OAuth, IAM, and Firestore-backed identity across dev, staging, and production environments
- Own CI / CD, branch protection, secret management, and billing safeguards across multiple repositories
- Serve as technical point of contact for client engagements, including data audits and onboarding

**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