

# Serap Ogut

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## EDUCATION

**Southern Methodist University - North Texas Community College Scholar**  
*Bachelor of Science: Computer Science and Data Science - GPA: 3.9*

Dallas, TX  
Exp. Graduation: Dec. 2025

## TECHNICAL SKILLS

**Languages:** Python, R, JavaScript, C++, SQL, HTML/CSS  
**Frameworks/Libraries:** scikit-learn, PyTorch, Django, LangChain  
**Databases:** PostgreSQL, Neo4j, Snowflake  
**Tools Platforms:** Google Cloud Platform, Azure DevOps, Databricks, Tableau, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

## PROFESSIONAL EXPERIENCE

**Data Engineer Intern** May 2025 – Aug. 2025  
CBRE Dallas, TX

- Automated reporting workflows and built a metadata tagging/query catalog framework, projected to save **4+ hours** weekly for **93%** of users.
- Leveraged Snowflake, dbt, Python, SQL, and Azure DevOps to improve discoverability and governance for CBRE's industry-leading billions of rows of global real estate and investment data.
- Led the "Voices of Leadership – Women in STEM" event, interviewing senior professionals to share insights with interns.

**Research Assistant** May 2025 – Present  
Southern Methodist University Dallas, TX

- Developed a Retrieval-Augmented Generation (RAG) chatbot to query City of Richardson council meeting agendas from the early 2000s, enabling semantic search and context-aware responses.
- Processed and embedded large-scale public records data, and presented capabilities to faculty and stakeholders.

**Data Science Intern** May 2024 – Aug. 2024  
Parkland Center for Clinical Innovation Dallas, TX

- Collaborated on an innovative Suicide Screening project, utilizing a unique, large-scale dataset of over **3M** encounters, marking a first.
- Conducted comprehensive data analysis on Databricks and developed a machine learning model with logistic regression, achieving **75%** balanced accuracy and **83%** sensitivity.
- Facilitated weekly meetings with stakeholders to present data-driven insights, leading to successful project launch.

**Research Assistant** May 2024 – Aug. 2024  
Southern Methodist University Dallas, TX

- Developed and integrated an LLM using OpenAI's ChatGPT-3.5 and LangChain to identify best-matching professors for research interests across departments, enabling seamless natural language queries in a Neo4j database.
- Led a comprehensive study involving **184** researchers across 14 departments at Southern Methodist University.

**Data Science Intern** Jan. 2024 – Jul. 2024  
Richardson Adult Literacy Center Richardson, TX

- Conducted data analysis and produced impact reports to demonstrate the value of literacy programs to stakeholders.
- Led a team in creating data visualizations and interactive dashboards using Tableau to present to the City of Richardson.

## LEADERSHIP EXPERIENCE

**Student Coordinator** | Thrive Scholars - Southern Methodist University May 2025 – Present

- Oversaw **over 25** student mentors supporting **120+** freshmen and transfer students in engineering and related majors, fostering a cohesive and effective mentorship program for ~150 participants.
- Organize and lead weekly coordinator-mentor meetings, resolving challenges, aligning on program goals, and ensuring effective communication between mentors and university resources.

**Founder & President** | SMU Dialogue Society Jan. 2023 – Present

- Established a student organization to promote different cultures and faith in the student body.
- Created a safe space for everyone's voice by organizing collaborative and interactive weekly workshops that invite students to promote meaningful connections with inclusion.

## PROJECTS

**Search Engine** | C++ Dec. 2022 – Jan. 2023

- Leveraged POSIX multi-threading, adhered to Google C++ coding & testing standards, and employed advanced C++ tactics to deliver scalable high-performance data-indexing and querying services.
- Designed an article indexing service using a multi-threaded producer-consumer paradigm with load-balancing mechanics to reduce data-indexing times.