AARON GUROVICH

aargurov@ttu.edu • +1 949-505-0956 • aarongurovich.com

Education

Texas Tech University | *Lubbock, TX*

B.S. in Computer Science, Minor in Mathematics | *Expected: May 2026*

GPA: 3.5 **Relevant Coursework:** Software Engineering, Applied Data Science, Concepts of Programming Language, Design and Analysis of Algorithms, Data Structures, Object-Oriented Programming, Computer Architecture, Linear Algebra.

Experience

Johnson & Johnson Electrophysiology | *Irvine, CA*

Clinical Data Engineer Intern | *June 2025 – Present*

- Boosted a **Generative AI** pipeline's classification accuracy from **75% to 98%** by optimizing data ingestion, applying advanced **prompt engineering**, and refining the **AWS** (**S3, Lambda, SQS**) infrastructure. Selected to present at the **Johnson & Johnson Data Science Showcase**.
- Worked closely with cross-functional teams to understand their needs and created **data visualizations** and **analytics** for **R Shiny** dashboards using real-time data from **AWS Redshift** using **SQL**, and built **AI chatbots** to help clinical teams explore and analyze data efficiently within the dashboards.
- Enhanced a scalable **Python ETL pipeline** by efficiently converting raw data into structured formats, increasing Varipulse clinical device data ingestion success rate from **80% to 99.99%**.

Texas Tech University | *Lubbock, TX*

Research Assistant | *Oct 2024 – May 2025*

- Developed a full-stack network analysis platform (**Flask**, **D3.js**) with a RESTful API for live data visualization.
- Constructed a data pipeline with **Scapy** and **Pandas** for high-performance packet ingestion and processing.
- Applied **NetworkX** and **Louvain Clustering** for graph-based anomaly detection.

ProofPerks | *Remote*

Software Engineer Intern | *Aug 2024 – Dec 2024*

- Boosted database performance with **PostgreSQL** query tuning (35% faster) and **Redis** caching (50% lower latency).
- Developed biometric verification models in **Python** and refactored backend services on **GCP** to enhance authentication reliability.
- Engineered scalable **data pipelines** for processing large biometric datasets efficiently.

Skills

Programming & Libraries:	Python, R, Java, SQL, Pandas, Numpy, Scikit-learn, PySpark, Scapy
Cloud & Data Platforms:	AWS (S3, Lambda, SQS, Glue), GCP, Azure, Docker, PostgreSQL
Frameworks & Services:	Flask, React, Shiny, RStudio, Tableau, D3.js, REST APIs
Developer Tools:	Git, Linux, Bash, CI/CD, GenAI

Activities

- **Hillel President** (May 2025 – Present) – Lead executive board, manage events/budget, and represent Jewish student community.
- **Chess Team Member** (Jan 2024 – Present) – USCF Rating: 1907; Represent Texas Tech in national collegiate and open tournaments.