

Aaron Gurovich



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Education

B.S. in Computer Science | *Texas Tech University, Lubbock, TX*

May 2026

- Minor: Mathematics
- Awards: Chess Scholarship, Presidential Transfer Scholarship
- Hillel President: Lead the student board and secured a \$5,000 multifaith grant for community events.
- Chess Team: Compete nationally with the team and attend regular team trainings. (USCF: 1907)

Experience

Clinical Data Engineer Intern | *Johnson & Johnson MedTech Electrophysiology, Irvine, CA* Jun 2025 – Present

- Accelerated clinical trials and improved diversity via optimized site selection (R, SQL, QP & Genetic Algorithm).
- Boosted AI classification accuracy from 75% to 98% for protocol deviations. (Python, AWS).
- Improved Data Hub pipeline stability by building a CI/CD-compliant codebase (PyTest, SonarQube, Terraform).
- Achieved a 100% clinical data ingestion rate by refactoring pipelines (Jira, Bitbucket, Jenkins)
- Engineered scalable, reusable AI assistants across dashboards to accelerate insights.
- Won 2nd place at the J&J Data Science Showcase for the Protocol Deviation Generative AI project.

Research Assistant | *Texas Tech University iDVL, Lubbock, TX*

Oct 2024 – May 2025

- Architected MalScope, a full-stack anomaly detection platform (Python, JavaScript, Flask).
- Engineered pipelines processing billions of records for feature extraction (Pandas).
- Detected hidden anomalies using Louvain clustering on traffic patterns (NetworkX).
- Built interactive heatmaps and graphs to simplify data exploration (D3.js, Cytoscape.js).

Software Engineer Intern | *ProofPerks, Remote*

Aug 2024 – Dec 2024

- Boosted authentication accuracy by fine-tuning and deploying transformer microservices (Python, HuggingFace).
- Automated training and inference by engineering cloud-native pipelines for biometric data (GCP).
- Reduced API latency and database load by implementing multi-layer caching strategies (Ruby, Redis).

Projects

UStartKit | *React, TypeScript, Supabase, OpenAI, Amazon API*

- Built an AI app that automatically generates essential product lists for new hobbies.
- Engineered a real-time Amazon search system that organizes products into budget tiers.
- Implemented AI logic to tailor product recommendations and explanations to user profiles.

SiftAI | *Python, FastAPI, Node.js, Docker, WebAssembly, Gemini API*

- Built an analytics engine that converts natural language queries into executed Python visualizations.
- Secured the runtime environment using a WebAssembly sandbox for safe code execution.
- Engineered a self-healing pipeline where the AI debugs and fixes runtime errors.

Elo-Conditioned Chess Predictor | *Python, PyTorch, Flask, JavaScript, NumPy*

- Trained a rating-conditioned CNN in PyTorch to mimic human play styles across Elo levels.
- Deployed a full-stack interface visualizing real-time move probabilities and AI confidence.
- Implemented robust server-side move validation and game state management logic.

Chess GM Twin | *React, Next.js, TypeScript, Tailwind CSS*

- Engineered a heuristics-based analysis engine to quantify chess playstyles (aggression, tactics) from raw game logs.
- Implemented a nearest-neighbor classification system to pair users with their historical Grandmaster counterparts.
- Built a Next.js dashboard visualizing comparative metrics through dynamic radar charts and game breakdowns.

Additional Skills

- | | | |
|---------------------------|----------------|-------------------------------|
| • Django / Flask | • C | • Git |
| • Java | • C# | • Object-Oriented Programming |
| • Test-Driven Development | • TensorFlow | • Design Patterns |
| • Unit Testing | • scikit-learn | • Agile |
| • Agile | • SQL | • Linux |