Aaron Gurovich

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Education

Texas Tech University — Computer Science B.S., Minor in Mathematics
GPA: 3.857
Expected Graduation: May 2026

Experience

Research Assistant, Texas Tech University: Fall 2024 - Spring 2025

- Assisted in developing and refining visual tools using **JavaScript** and **Python** to enhance understanding of **cybersecurity threats** and solutions.
- Worked with **data visualization** tools such as **D3.js** and **Cytoscape** to analyze and present complex **cybersecurity data** utilizing techniques in **data analysis** and **data-driven decision-making**.
- Collaborated with team members using **Agile methodologies** and version control systems like **Git** to ensure accurate and meaningful data representation, supporting **research objectives** in cybersecurity.

Software Engineer Intern, Arcoscan: Fall 2024

- Developed **Biometric** and **Age Verification models** using **machine learning** techniques as part of Arcoscan's core technology.
- Improved model accuracy through **data preprocessing** and **feature engineering**, utilizing **Redis** and **PostgreSQL** for efficient data management.
- Created **automation scripts** in **Python** to optimize data workflows and system performance.
- Ensured code quality and adherence to **software engineering** best practices by writing comprehensive **unit tests** with **unittest**, enhancing model reliability and workflow stability.

Projects

Argumate (React, AI-driven, ChatGPT API, AssemblyAI API)

- Created an AI-driven application to settle arguments fairly by analyzing speech and providing feedback on who made the stronger case, utilizing **natural language processing (NLP)** and **machine learning**.
- Used **AssemblyAI API** to accurately seperate each speaker's voice and speech-to-text transcription. Used **ChatGPT API** to break down each speaker’s points, evaluating logic, emotional impact, and responsiveness.
- Designed a simple, user-friendly interface with **React** and **responsive design** that allows users to view feedback on each person’s arguments and understand what made one side stronger.

Random Movie Generator (React, Tailwind CSS, TMDb API)

- Developed a dynamic web application using **React** and **Tailwind CSS** that generates personalized movie recommendations based on user-defined filters, such as genre, release year, rating, and streaming provider availability.
- Integrated with **TMDb API** to retrieve and display extensive movie data, ensuring up-to-date information and seamless **API data fetching**.
- Implemented efficient state management using **React hooks** and **context API** to handle **API data**, caching, and user inputs, providing a seamless and interactive user experience.

Skills

- **Programming Languages**: Python, Java, C, JavaScript
- **Web Development**: React.js, HTML, CSS, Git
- **Databases & Caching**: Redis, PostgreSQL

Interests

Active Member, Texas Tech University Official Chess Team

Spring 2024 - Present

- Enhanced strategic thinking and problem-solving skills through regular team practice and competitive play.
- Achieved a USCF rating of 1900, placing in the top 5-10% of competitive players.
- Placed in multiple regional and national tournaments, demonstrating high-level performance and consistency.