Modi Goldstein-Rosenfeld

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Education

Cornell University, College of Arts & Sciences Expected Graduation: May 2027

B.A. in Computer Science, Minor in Artificial Intelligence *Ithaca, NY*

- Relevant Coursework: Machine Learning, Analysis of Algorithms, Object-Oriented Programming, Functional Programming, Probability & Statistics, Discrete Math, Linear Algebra, AI Reasoning, Backend Development
- Teaching Experience: CS 3110 - Data Structures & Functional Programming in OCaml

Work Experience

Scribe Jun 2025 - Aug 2025

Software Engineering Intern *Remote*

- Developed an automation that scans client repositories, updates workflows to include security checks, and opens pull requests with changes, enabling faster adoption of security practices across all targeted client repositories
- Reduced client setup time by 90% by creating a one-line installer and ready-to-use GitHub Action workflows, allowing new users to integrate company software into their build pipelines in minutes instead of hours
- Built a Bash tool that automatically embedded source, version, and security information into Docker images, enabling clients to trace builds to their exact code commit and verify that 100% of builds meet security standards

Freelance Programming Jul 2024 - Aug 2025

Software Developer *Remote*

- Built a Python pipeline for a healthcare executive that automated the extraction, cleaning, and standardization of earnings call transcripts from 1,500+ companies, reducing processing time by 80% and enabling same-day analysis
- Simplified the process of relisting unsold tickets for a local parking company by 90% by automating sold-inventory retrieval, applying dynamic pricing rules, and scheduling recurring 30-minute batch uploads to the sales platform

Research

Cornell University Verified Numerics Group Sep 2025 - Present

Student Researcher *Ithaca, NY*

- Graduate-level research designing a programming language optimized for matrix operations using Julia
- Designing and running large-scale experiments on 5,000-10,000 dimensional matrices to evaluate expected 15-30% performance gains while studying tradeoffs in numerical accuracy, stability, and memory efficiency

Cornell University Economics Department Aug 2024 - Nov 2024

Data Collection Assistant *Ithaca, NY*

- Scraped Economics PhD placement using BeautifulSoup, expanding the department's dataset by 1,200+ entries
- Compiled outcomes and academic fields into a structured Excel dataset, reducing data lookup time by over 50%

Projects

S&P 500 Next-Day Direction Forecaster | Python, Scikit-learn, Pandas, Matplotlib Sep 2025 - October 2025

- Engineered a model to predict price direction and backtests a long/cash strategy across 4,000+ trading days
- Designed a dashboard for visualized results, turning dense model output into an investor-ready narrative

Steam Game Recommender | Python, Flask, SQLite, Scikit-learn May 2025 - Jun 2025

- Built a user-specific video game recommendation app using the Steam API and SQLite to cache 20,000+ games
- Implemented hybrid engine with TF-IDF and playtime weighting, and responsive UI for live results

Oil Trading Model (Cornell FinTech Club) | Python, PyTorch, Pandas Oct 2023 - May 2024

- Built sentiment pipeline using DistilRoBERTa to classify 450+ oil news articles scraped from market sources
- Presented results weekly to product manager and subteam to update on progress and refine model output

Technical Skills and Interests

Languages: Python, JavaScript, Java, SQL, OCaml, Bash, HTML/CSS

Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Flask, Matplotlib, BeautifulSoup

Tools: Git, GitHub, GitLab, GitHub Actions, Docker, Jenkins, PostgreSQL, SQLite, Postman, Azure

Interests: New York Sports, Bass Fishing, Fantasy Football, Épée Fencing, Pokémon, 2000s Rock, The Sopranos