

MICHAEL LEE

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1637 Orrington Ave, Apt #307, Evanston, IL 60201

EDUCATION

Northwestern University

Bachelor of Arts in Math and Economics

Evanston, IL

September 2022 – December 2025

- Cumulative GPA: **3.93/4.00** | ACT Math: **36/36** | Dean's List: **2022, 2023, 2024** | National Merit Finalist | AP Scholar
- Coursework: Probability & Statistics, Game Theory, Econometrics, Differential Equations, Linear Algebra, Discrete Math

EXPERIENCE

Kellogg School of Management

Research Assistant (Advisor: Prof. Leander Heldring)

Evanston, IL

June 2024 – September 2024

- Developed **LLM** tools in **Python** for a multi-year economics research project studying academic literature and public policy
- Fine-tuned a **BERT** language model for textual entailment; procured a data set of **1000+** manually classified sentence pairs
- Created a RAG pipeline using **Langchain**, used to quickly extract policy-relevant information from research papers and books

Project Destined

Real Estate Research Intern

Washington, DC

September 2023 – November 2023

- Led a group of nine interns to pitch a multi-family residential property in Hermosa, Chicago valued at \$2.6 million; ranked as the **1st place** investment pitch in the Midwest division and attracted investment from project managers at Northmarq and JLL
- Assisted in preparing financial models for properties in Chicago including a 10-year forecast DCF and sensitivity analysis
- Conducted an extensive analysis of the Chicago real estate market by reviewing demographic data, historical mortgage and rent trends, projected growth in housing prices, and comparative economic data in the New York and Los Angeles housing market

RelationTrip

Software Engineering Intern

Evanston, IL

June 2023 – September 2023

- Developed a social networking app downloaded by **80+** couples at the Northwestern Jumpstart Pre-Accelerator program
- Built an API and **15+** endpoints to store, read, and update user data using **Express.js**, connected to a **CockroachDB** database cluster using **node-postgres** and **SQL**; deployed the API on **Google Firebase** and tested API requests through **Postman**
- Created front-end features using **React Native** including screen navigation, user authentication, and location tracking

EXTRACURRICULAR

Institute of Electrical and Electronics Engineers

Data Engineer

Evanston, IL

January 2024 – May 2024

- Led six undergraduate students to create a machine learning application in **Python** to interpret sign language from real-time video, utilizing **OpenCV** and **MediaPipe** to process footage, detect joint movement, and train a convolutional neural network

Northwestern Debate Society

Varsity Debater

Evanston, IL

June 2022 – Present

- Conducted **500+** hours of research on American politics, emerging technology, environmental policy and nuclear conflict
- Achieved **first** place in the J.W. Patterson College Debate Tournament Wildcat Division in a pool of 50+ competitors
- Organized and led summer debate program at Northwestern reaching **50+** students from urban Chicago high schools

PROJECTS

Northwestern Trading Competition | Python, NumPy, pandas, Jupyter

October 2023

- Created a stock trading algorithm in **Python** utilizing a short-window moving average crossover strategy to manage and trade \$100,000 in simulated capital; achieved a leading PnL score and **top six placement** in a field of 25+ undergraduate teams

SimpleSQL | C++, SQL

January 2023

- Built an **SQL** execution environment in **C++** including developing a lexical analyzer, checking for and correcting semantic and syntactic errors in SQL queries, and writing robust test suites using public transit and movie databases with **1000+ entries**

ADDITIONAL INFORMATION

Skills: Python (NumPy, pandas, SciPy, Jupyter), C++, R (tidyverse), Stata, SQL (Postgres), JavaScript, Korean, MS Office

Membership: Algorithmic Trading Club, Blockchain Group, IEEE ML Team, NTech Quant, Northwestern AI, Debate Society

Awards: Gingras, Thomsen & Wachs Attorney Scholarship (**1st/500**), Milton S. Florsheim Prize, John B. Kirk Award

Interests: Performance Psychology, Competitive Typing, Basketball, Minesweeper, Debate Coaching, Future Funk Music