

# Ethan Karpeles

Denton, Texas, USA

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## PROFESSIONAL PROFILE

Award-winning Mathematics major and Computer Science minor at the University of North Texas. Bilingual in English and Spanish.

## PROGRAMMING LANGUAGES

Python | SQL | C++ | C | JavaScript | Java | HTML | CSS | LaTeX

## SOFTWARE

Git | GNU/Linux | Excel

## LANGUAGES

English (Native) | Spanish (Bilingual)

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## EXPERIENCE

PMG

Dallas, Texas, USA

### **AI & Software Engineer I**

Starting January 2026

- Will be participating in the Graduate Leadership Program for AI & Software Engineering.

### **AI & Software Engineering Intern**

Summer 2025

- Deployed AI-driven dashboards, flagging major service issues and performance bottlenecks for proactive engineering resolution. Presented the final product to senior executives.
- Developed automated Jira issue ingestion workflows and integrated OpenAI embeddings with KMeans clustering to enable ML-based ticket classification.
- Engineered and documented Python scripts for BigQuery table management, streamlining internal data pipelines and eliminating manual credential hurdles.

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## EDUCATION

### Bachelor of Science in Mathematics

GPA: 4.0

Minor in Computer Science

Expected Graduation: December 2025

University of North Texas, Denton, Texas, USA

## RELEVANT COURSEWORK

### **Mathematics**

Numerical Analysis | Graph Theory | Linear Algebra | Applied Statistics | Differential Equations | Calculus I–III | Graduate-Level Elliptic Curve Seminar | Real Analysis I and II | Abstract Algebra | Topology

### **Computer Science**

Cryptography (Python & C++) | Applied Artificial Intelligence (Python) | Foundations of Data Structures (C++) | Foundations of Computing | Computer Science I and II (C++)

## HONORS & AWARDS

Outstanding Undergraduate Mathematics Student of the Year, UNT Math Department

2024

President's List

Spring 2024

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## RESEARCH EXPERIENCE

University of North Texas

Denton, Texas, USA

### **Undergraduate Research Fellowship**

2024 – 2025

- Wrote a Python program to identify families of elliptic curves with semistable reduction modulo any prime.
- Gave a talk in a full auditorium for the entire math department and presented a poster at UNT's Scholars Day.

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## LEADERSHIP EXPERIENCE

### **President, Alpha Epsilon Pi, UNT**

2024 – 2025

- Elected to lead a 20-member chapter, overseeing operations, recruitment, community service initiatives, and the management of a \$28,000 annual budget.

### **Vice President, Math Club, UNT**

2024 – 2025

- Assisted in the leadership of an academic organization to foster a deeper interest in mathematics for students.