

Kaden Gruizenga

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EDUCATION

UNIVERSITY OF MICHIGAN

Ann Arbor, MI

College of Engineering

Bachelor of Science in Engineering, Data Science, May 2027

- Double minor in Math and Economics
- GPA: 3.52/4.00 | SAT: 1540/1600
- Coursework: Data Mining, Probability Theory, Combinatorics, Data Structures & Algorithms, Linear Algebra, Discrete Math, Multivariable Calculus
- National Merit Finalist (<1%), AP Scholar with Distinction (3x), HS Valedictorian
- Other Activities: Scholars of Finance

PROJECTS

Trading Signal Classifier

Python, Pandas, Keras, Scikit-learn

- Engineered 60+ microstructure-based features (e.g., weighted OBI, Depth Ratio) from Level 3 SGX A50 Futures data.
- Parsed order book from tick-level updates, handling cancellations and matching.
- Applied LSTM and ensemble models in a rolling-window pipeline for short-term classification.
- Refactored into modular pipeline; building realistic backtesting w/ PnL, Sharpe, drawdown.

LSTM Trace Analyzer (Keras)

Python, TensorFlow, Plotly

- Built tool to parse Keras trace logs and generate interactive call graphs of model internals.
- Surfaced execution bottlenecks during LSTM training; enabled debugging of black-box ops.

LLM Summarization Pipeline

Python, Gemini API, GCV

- Created a tool to ingest, OCR, and summarize lecture slides, documents, videos, and PDFs.
- Combined Gemini API, OCR, and prompt chaining to generate structured multi-format notes.

EXPERIENCE

CONTRACTOR AT MULTIPLE STARTUPS

Grand Rapids, MI

Incoming Agentic AI Deployment Intern

Summer 2025

MERCANTILE BANK OF MICHIGAN

Grand Rapids, MI

Automation Intern in Internal Audit

Summer 2024

- Designed and implemented automation solutions to optimize the audit process, cutting processing times by 98% from over 111 minutes to under 3 by streamlining workflows, eliminating repetitive tasks, and enhancing data accessibility, allowing more people to independently conduct analysis.
- Developed robust software-driven frameworks to systematically review \$731M in high-value assets, including agency bonds, CMOs, MBS, and municipal bonds, ensuring strict compliance with board policies and automating precise interest recalculations on \$58M in subordinated notes.
- Conducted extensive testing of loan system enhancements, authentication mechanisms, and distressed loan tracking software, identifying critical compliance gaps and ensuring seamless and reliable system performance across \$166M+ in commitments and \$146M+ in book balances.

GLOBAL INVESTMENTS COMMITTEE

Ann Arbor, MI

Technology Desk Head

2024–Present

- Advocated for a long on Perion Network (NASDAQ: PERI) following market overreaction to Microsoft Bing's advertiser pull-back and Google's AI search evolution. Emphasized AI-powered ad tech (SORT, WAVE), diversification into CTV/DOOH, and strong balance sheet with \$374M net cash. Projected 200%+ upside through DCF analysis, reverting to historical market multiples.
- Pitched PDF Solutions, focusing on its shift to subscription model, AI-driven analytics, and offerings like Design-for-Inspection (DFI) and Exensio, backed by 160+ patents and strong history with major semiconductor firms. Projected 30.4% upside through DCF analysis.

ADDITIONAL

- Fluent in Python, C++; proficient in Go, R, LaTeX
- Adventure traveler; passionate about Formula 1, skydiving, and McLaren/Hennessey cars
- Trombone player in marching/jazz band; skilled in Michigans fight song and Phantom theme