Hetansh Kevadia

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Education

University of Maryland College Park, MD
Bachelor of Science in Computer Science & Mathematics; Minor in Computational Finance *GPA: 3.873*

Technical Skills

Languages: Python, Java, JavaScript, C, C++, SQL, TypeScript, Ocaml, HTML, CSS, Rust
Frameworks & Libraries: EC2, Node.js, Flask, Django, XGBoost, LangChain, LangGraph, PyTorch, TensorFlow
Developer Tools: AWS, AGit, IntelliJ, VS Code, Eclipse, Linux
Coursework: Object-Oriented Programming I and II, Computer Systems, Discrete Mathematics, Algorithms, Computer Systems, Discrete Math, Programming Languages, Data Science, Artificial Intelligence, Introduction to Financial Markets and Financial Datasets

Work Experience

Undergraduate Teaching Assistant – BMGT289D (Fraud, Scams, and Thefts) Aug. 2024 – Dec. 2024
Robert H. Smith School of Business, University of Maryland *College Park, MD*

- Supported 60+ students by simplifying complex concepts in business fraud and risk management
- Coordinated with the professor to develop the entire semester's course structure, learning materials and quizzes
- Collaborated with faculty to create engaging assignments and track academic performance

Software Engineer Intern Dec 2024 – Jan. 2025
Aimtech Business Solutions Pvt. Ltd. *Remote*

- Spearheaded software customization for 10+ business clients using modified Tally modules
- Resolved 50+ technical issues via remote support, achieving a 92% issue-resolution rate
- Enhanced internal documentation and assisted in UI feedback collection for iterative updates

Projects

YouSure? GitHub | *Python, React, Flask, XGBoost, RAG* April 2024

- Built backend Flask APIs to handle PDF ingestion, preprocessing, and semantic search queries with a retrieval of 3,000+ policy sections in under 2s
- Implemented semantic search with vector embedding-based semantic search to retrieve 3,000+ relevant policies
- Designed a ranking algorithm that scored 200+ policies across 3 categories with 87% accuracy in internal tests
- Integrated backend Flask APIs with frontend React components for live scoring and comparison features

Wait-list-watcher-320 GitHub | *Python, AWS EC2* August 2025

- Configured and deployed an AWS EC2 instance to host a production-ready backend, leveraging `pm2` for persistent process management and automated scheduling of seat availability checks every 5 minutes.
- Designed a secure private API and integrated a Discord bot to deliver real-time seat availability alerts with sub-second latency, ensuring seamless user notifications.
- Implemented scalable monitoring and logging practices to maintain reliability and minimize downtime.

Pulsify GitHub | *Python, React, RAG, Flask* October 2024

- Developed a medical app which when used by 6 simulated clinics, reduced EHR review time by 65%
- Designed backend pipeline to parse and normalize 2,500+ JSON EHR records into queryable tabular structures
- Implemented Flask APIs to handle semantic search serving 100+ summaries weekly with 90% correctness rate

Quantitative Market Microstructure Analysis (2010 Flash Crash) | *Pandas, NumPy* November 2025

- Engineered a robust data pipeline to process and clean high-frequency trade and quote (TAQ) data surrounding the May 6, 2010, Flash Crash.
- Conducted granular time-series analysis to visualize liquidity depletion, calculating widening bid-ask spreads and volume imbalances at millisecond precision.
- Implemented algorithmic detection logic to identify the exact onset of the crash and the subsequent contagion across ETF and equity markets.
- Generated dynamic visualizations using Matplotlib to demonstrate the correlation between high-frequency trading volume and price volatility during the event window.