Tomer Karmazin

SOFTWARE DEVELOPER

ABOUT ME

I am a final-year Computer Science student with a strong focus on AI and finance. My strengths is in Python programming and data analysis, where I excel at breaking down complex problems into practical, solvable components. I take pride in my ability to build structured, data-driven systems, particularly my recent market data analysis project, which reflects my passion for working with real-world data and extracting actionable insights. I am driven by a desire to deeply understand how systems work and constantly improve them. I'm eager to apply my skills in impactful roles and continue learning in fast-paced, innovative environments.

CONTACT

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- Linkedin
- Github
- Tel-Aviv, Isreal

SKILLS

- Python
- SQLite
- Data-analysis
- JavaScript
- MongoDB

LANGUAGE

Hebrew - Native Language

English- Fluent

PROJECTS

Market Analysis and Prediction System.

Python, SQLite, GeckoTerminal API, Gmail API, asyncio, numpy

Independent Project | 2024-Present

Developed an automated market analysis system that tracks and analyzes tokens, leveraging advanced data analysis and real-time market data to detect price patterns and execute optimized trading strategies.

- Analyzed data from 1200+ tokens, implementing a dynamic algorithm that adapts based on market conditions, achieving an 82% success rate in predicting profitable trades.
- Built a high-performance system using SQLite for efficient data management and real-time data fetching.
- Engineered the system to easily scale, enabling the tracking of more tokens by upgrading API access, with the capacity to double the current token tracking without performance degradation.
- Implemented a real-time data handling strategy, ensuring the system reacts promptly to market changes while maintaining data integrity and minimizing response time.
- Developed custom data analytics tools to assess token performance, identifying correlations and trends that informed better trading decisions.
- Optimized system performance by introducing performance enhancements and leveraging efficient data retrieval techniques, ensuring real-time market responsiveness.
- Implemented detailed logging to track system activities, errors, and performance metrics, enabling easy debugging, performance analysis, and ensuring system reliability in production environments.

Python - Algorithms visualization game

I developed a Pathfinding Visualization Game to demonstrate my Python programming skills and knowledge of algorithms acquired during my Computer Science studies. The project uses Pygame to create an interactive grid and visualize the execution of pathfinding algorithms. Intuitive UI with visually appealing elements to enhance user understanding. The game includes functionality to save metadata and snapshots of the grid to an Excel file.

- Implementing BFS ,DFS, A* ,IB-RRT* as a searching algorithms.
- Implemented functionality to export grid metadata and images to Excel.
- Interactive grid interface with appealing elements and responsive design.

EDUCATION

Afeka College - **B.Sc in Computer Science**

2021 - 2025

At my academic studies, I have gained different skills such as problem-solving, deep understanding of both theoretical and practical aspects of Computer Science and time managment for a succecful proefficient schedule.

- Strong understanding of data structures and object-oriented. Programming and algorithms.
  Working with partners and delivering projects under pressure.

MILTARY SERVICE

Paratroopers Brigade

Combat Soldier (Battalion navigator)

2017 - 2018

- Combat navigator in overall operational force.
- Combat soldier as Frontline combatant. .
- Responsibale for units route on missions.