ZEYAD AWADALLA

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EDUCATION

BSc Computer Science, University of Manchester   Sep 2022 - Jun 2025
- Algorithm and Data Structures
- Data Science, Introduction to AI, Machine Learning
- Database Systems
- User Experience

A Levels, Doha College   Sep 2020 - Jul 2022
Physics, Chemistry, Maths and Computer Science - $A^* A^* A^* A^*$

EXPERIENCE

Flutter Developer   Jun 2023 - Sep 2023
Harf Information Technology   Cairo, Egypt
- Developed and maintained a cross-platform mobile application using the Flutter UI toolkit and Dart, delivering a seamless user-friendly experience for both iOS and Android devices.
- Led a team of Junior Interns in an agile environment, overseeing code reviews, and ensuring the team followed the best practices such as code reusability.
- Engaged with the product manager to translate user requirements into technical specifications, ensuring the application met business needs.
- Conducted performance optimization and testing and resolved software defects, using Flutter DevTools to monitor app performance and ensure smooth user interaction.

PROJECTS

Eventlite   Jan 2024 - May 2024
- Collaborated with a team of 8 to develop an event management website using the Java Spring framework and the MVC design pattern, focusing on efficient back-end and user-friendly front-end.
- Integrated Mastodon API, allowing users to share event details and real-time updates for users attending across social media platforms, utilizing web sockets to ensure immediate notifications on status updates.
- Employed Gitlab for task management, overseeing 100+ issues, and maintained development branches through Git version control.
- Utilized JUnit for testing core functionalities related to event creation, user interaction and Mastodon API integration, ensuring reliability and performance.

Othello Game Agent   Feb 2024 - Apr 2024
- Designed and implemented an AI agent that autonomously plays Othello, utilizing Python to assess board states, generate game trees and simulate potential outcomes.
- Applied the Minimax algorithm to evaluate to evaluate potential moves and select optimal decisions.
- Optimized decision-making by exploring heuristics for board evaluation and employed alpha-beta pruning to improve efficiency in real-time gameplay.

DeFi Arbitrage and Price Prediction Tool   Sep 2024 - Present
- Managed data integration and analysis through GitHub, documenting and version-controlling project workflows.
- Collected large-scale real-time and historical price data across DEXs via CoinGecko and Binance APIs, ensuring low-latency data for accurate arbitrage analysis.
- Implemented machine learning models (e.g., Gradient Boosting, Random Forest, LSTM) for predictive analytics, including price prediction and feature evaluation with ISOMAP/UMAP.
- Researching flash loan integration for future arbitrage features.

SKILLS

Programming Languages	C, C++, Python, Java, Dart, PHP, Solidity, TypeScript
Web Technologies	HTML, CSS, JavaScript, NodeJS, MySQL
Languages	English (Fluent), Arabic (Fluent)