Belal Mansour

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Summary

As an incoming freshman at The University of Florida, I am a dedicated and motivated individual with a strong passion for computer science. I possess demonstrated leadership abilities and exceptional problem-solving skills. I thrive in collaborative, innovative, and results-driven environments, where I actively foster effective teamwork and communication to drive success.

Education

Wiregrass Ranch Highschool | Wesley Chapel, FL
06/2023

- President of Computer Science Honors Society
- Relevant Courses: AP Computer Science A, Intro to Software and Development Python
- Graduating at Top 5% of class

Experience / Projects

3xclusivecollectibles LLC | FL, Wesley Chapel
CEO & Co-founder | 06/2021 - Present

- Managed all company operations, including sales, product management, customer relations, and inventory packaging
- Generated approximately $60,000 in sales in under two months
- Implemented e-commerce software (Ominous) and integrated custom scripts to automate purchasing and shipping processes
- Expanded company revenue by diversifying into the cryptocurrency market through HNT mining

FL, Wesley Chapel
Tennis Instructor(Self-employed) | 08/2019 - Present

- Taught tennis to children (ages 3-16) and adults of all ages for the past four years
- Managed scheduling, payments, and client relations

Full Stack Portfolio Web App (In Progress)

- Leveraged AWS Lambda for dynamic feature implementation on a static website.
- Implemented the front-end using HTML, CSS, and JavaScript, creating an engaging user interface.
- Utilized Python and the Django framework for the back-end development, ensuring seamless integration and efficient data processing.
- Incorporated a weather prediction model, enabling users to interact with the app by downloading the required training data specific to their chosen city and passing it through the CSV-based model.
- Provided comprehensive contact information for easy communication and collaboration opportunities.

Weather Predictor Script

- Created a Python-based weather prediction script that performs real-time climate data analysis, enabling accurate forecasts.
- Achieved a training data error rate of just 2.7%, demonstrating the effectiveness of the model in capturing weather patterns.
- Employed Python libraries pandas and scikit-learn for robust data handling, computation, and machine learning tasks.
- Enhanced data preprocessing techniques to refine model training inputs and ensure the utmost quality of predictions.
- Deployed Ridge Regression for the machine learning model, optimizing its performance through parameter adjustments.
- Conducted feature selection and engineering to enhance the predictive capacity of the model.
- Utilized Matplotlib to generate visually appealing representations of the weather prediction results, facilitating comprehensive analysis and interpretation.
- Executed thorough testing to validate the reliability and accuracy of weather predictions, ensuring a robust and dependable script.

Skills

- Programming Languages: Python, Java, JavaScript, HTML, CSS
- Machine Learning, Linear Regression, and Ridge Regression Algorithms
- Strong communication, teamwork, and leadership abilities
- Fluent in English and Arabic