Matthew Assali

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EDUCATION

Pennsylvania State University *B.S in Computer Science* (GPA: 3.71)
Graduation Date: December 2023
Relevant Coursework: Data Structures; Compilers; Operating Systems; Database Design; Artificial Intelligence; Algorithm Design; Computer Architecture; Networking and Telecommunications; Principles of Programming Languages; Object-Oriented Programming; Software Engineering and Design

LANGUAGES AND TECHNOLOGIES

Proficient In: Python, Java, C/C++, C#, bash, SQL, MySQL, Oracle, HTML, PHP, JavaScript, Ruby, Go, CSS, Flask, React, Angular, Node.js, .Net, JSON, RESTful Services, PyTorch.
Tools and Platforms: VSCode, Git, GitHub, Microsoft Office, Windows, Embedded Linux, OS, Miro, MongoDB, Amazon Web Services, Google Cloud Platform, Docker, Veeva Systems, ValGenesis.
Languages: Fluent in Arabic and English.

PROJECT EXPERIENCE

PredictAI - Graduation Project, Team Lead   Dec 2023
- Led the development of PredictAI, a ML-based prediction engine for market and price forecasting, with a team of 8.
- Designed and implemented a user-friendly web interface with React and Node.js, facilitating easy access to predictive insights for non-technical users.
- Managed the integration of RESTful APIs for efficient data handling and storage, ensuring seamless backend communication and data integrity.

Scheduler App   Fall 2022
- Innovated a web-based application that employs a genetic algorithm to optimize semester scheduling, improving user satisfaction due to enhanced schedule efficiency and flexibility.
- Transitioned the project from a standalone software to a web application using Flask and React, making it accessible to a broader audience.

Travel Planner   Fall 2022
- Co-developed a Python-based travel app that calculates the most cost-effective routes, leveraging graph data structures
- Implemented an interactive mapping feature, enhancing user experience by providing real-time, visual route planning.

WORK EXPERIENCE

Validation Specialist Intern *Spark Therapeutics*   Jun 2023 - Aug 2023
- Contributed to the Quality Management System (QMS) Veeva Release 23R2, including support, testing, and migration of requirements to ValGenesis.
- Conducted User Acceptance Testing and managed testing scripts and exceptions.
- Gathered and ensured accuracy of requirements for the Data Ingestion and Storage Project.

ACHIEVEMENTS

Dean's List: FA 2021, SP 2022, FA 2022, SP 2023, FA 2023   (Penn State University Abington, PA)