Faddi Dabain

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Profile

Passionate and results-driven aspiring software engineer with a strong foundation in computer science. Completing a Master of Science in Computer Science at Manhattan University, where I also earned my Bachelor's degree. Proficient in Python, Java, C++, JavaScript, Node.js, SQL, Vite, HTML, and API integration. Recognized for developing innovative projects like dynamic platforms and neural network classifiers. Committed to leveraging technical expertise in software engineering, backend development, data analysis, and AI/ML engineering. Adept at problem-solving and dedicated to delivering impactful software solutions that enhance user experience.

Core Competencies

Strong Project Management ♦ Keen Attention to Detail ♦ Great Communicator ♦ Tech-Savvy ♦ Problem Solver ♦ Team-Oriented ♦ Natural Leader ♦ Inclusive ♦ Warm, Professional Demeanor ♦ Exceptional Work Ethic ♦ Adaptable

Education & Honors

Manhattan University ***B.S. Computer Science,*** Received May 2024.
Cum. GPA: 3.4/4.0.
Manhattan University ***M.S. Computer Science,*** Anticipated Graduation May 2025.
Cum. GPA: 3.83/4.0.

Project Experience

MCGardens**;** *JavaScript, CSS, Firebase, OpenAI API, Unsplash API, Nodemailer* Jan 2024 – May 2024

- Developed a comprehensive web application facilitating user interaction with dynamic content on plants, weather, and events using Agile Methodology
- Implemented responsive design principles to ensure seamless user experience across desktops, tablets, and mobile devices, enhancing user interface (UI) and user experience (UX).
- Implemented user authentication and data encryption using Firebase; created API calls to OpenAI for plant care information and to Unsplash for images.
- Applied Agile methodologies and used Git for version control to manage project development, collaborate effectively, and iterate based on user feedback.

Formula1 Racing Leaderboards**;** *Python, SQL* Aug 2023 – Dec 2023

- Led the development of a dynamic Formula1 Leaderboard Database system using Python and SQL, delivering detailed historical F1 race data to users.
- Designed and implemented intuitive GUIs for data visualization, enhancing the user experience (UX) and enabling in-depth race data analysis.
- Developed robust SQL databases and efficient data processing algorithms for quick retrieval of extensive datasets, including leaderboards, driver statistics, team statistics, and tire strategies.
- Visualized tire strategies and updated points standings, offering insights into race tactics and contributing to performance analysis.

Neural Network for Signal vs. Noise Detection**;** *Python, NumPy, Pandas* Jan 2024 – May 2024

- Developed a two-layer neural network using Python, NumPy, and Pandas to classify signal and noise in complex datasets.
- Implemented hidden and output layers, optimized through backpropagation and the sigmoid activation function, enhancing model precision.
- Trained and validated the network on extensive datasets, achieving high classification accuracy and robust performance metrics.
- Evaluated and refined model performance using Mean Squared Error (MSE) and Receiver Operating Characteristic (ROC) curves, leading to significant improvements in detection capabilities.

Work Experience

Information Technology Support Specialist, **Manhattan College** Sep 2022 – May 2024

- Collaborated with a team of IT professionals to swiftly resolve technical issues and provide support for hardware malfunctions in over 100 classrooms and offices, resulting in a 90% decrease in downtime for teachers and students.
- Enhanced the user experience by conducting insightful troubleshooting and diagnosing hardware, software, and network-related problems.

Technical Skills

Proficient in Java, C/C++, Python, JavaScript, SQL, Bash, LUA, HTML, CSS, React Native, API Integration