FADDI DABAIN

806 Pinesbridge Road, Ossining, NY 10562 Contact: (914) 689-6900; dabainfaddi@gmail.com

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: 3.4/4.0.

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.

Discord Bot Development**;** *Python, Discord API, YouTube API, Spotify API* May 2023 – Present

- Developed a feature-rich Discord bot using Python, enhancing server interaction and entertainment for users.
- Integrated YouTube and Spotify APIs to enable music playback within the server, including fetching and playing tracks.
- Implemented commands for comprehensive music control (play, pause, skip) and queue management, improving user experience.
- Enhanced server functionality with additional interactive features, fostering community engagement and participation.

TECHNICAL SKILLS

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

TECHNOLOGY

Proficient in Microsoft Office (Word, Excel, PowerPoint), Mac OS,Windows, Linux