Mustafa Mannan

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Education

University of South Florida   Tampa, FL
Bachelor of Engineering in Computer Science   *Aug 2021 | May 2025*
Relevant Coursework: Programming Concepts, Computer Organization, Data Structures, Program Design, Discrete Mathematics, Logic Design, Linear Systems, Analysis of Algorithms

Technical Skills

Languages & Databases: Python, C/C++, C#, Javascript, HTML/CSS, SQL, PostgreSQL
Frameworks: React.js, Flask, Django
Tools and Libraries: Github, VS Code, Requests, Sys, numPy, Scikit, tensorflow, BeautifulSoup, Selenium
Leadership & Extracurricular: Google Developer Student Club, NSBE - Professional Development Chair, SHPE
Skills: Bash Scripting, Automation, Machine Learning, Data Analysis, FullStack Development, API's, OOP, OAuth
Awards: Green and Gold Scholar's award

Experience

Developer Intern   Doha, Qatar
Mowasalat   *May 2022 | Aug 2022*
- Contributed to enhancing the Karwa app's bus schedule and notification system, working under the guidance of senior developers.
- Assisted in refining the real-time notification features and user interface, improving the efficiency of the app and making it easier for users to receive timely bus schedule updates.
- Supported in the development of the taxi booking component, including integrating features for booking, tracking, and managing taxi rides.

Projects

Embassy AutoBook Script | *Python, Selenium*   *Feb 2024 | March 2024*
- Designed an **automated system** for embassy appointment scheduling for daily use, efficiently detecting available slots and securing bookings.
- Automated critical notifications, streamlining email confirmations for appointments to ensure user awareness.
- Optimized execution and resource utilization through **bash scripting**, minimizing resource usage.
- Implemented a **self-terminating** feature for the script post task completion.

SBotify | *Python*   *Feb 2024 | March 2024*
- Secured user data using **OAuth2 authentication**, enabling personalized secure data access.
- Created a Discord bot that integrates with Spotify's API, elevating music-sharing experiences in over 15 servers
- Refined the bot based on user feedback, improving functionality and user experience increasing bot usage by 20%.
- Streamlined user interactions by designing intuitive bot commands making using the bot simple.

Enhancing Analysis: ML Approach | *Sci-kit, Pandas, NumPy*   *Aug 2023 | Oct 2023*
- Devised a **machine learning model** to rank the efficiency of the top 5 attacking players in soccer.
- Created a composite metric merging traditional and advanced indicators for player efficiency analysis.
- Developed an **algorithm** using **machine learning** and **linear regression** to predict player performance.
- Leveraged visualization tools like Tableau for insightful clear presentation of findings.

The Qibla Project | *Flask, HTML, CSS, React.js*   *May 2023 | Aug 2023*
- Implements advanced algorithms to calculate Qibla direction and incorporated a lunar calendar system using Flask, leveraging geographical coordinates from geolocation and **RESTful API** integration.
- Incorporated algorithmic solutions for real-time, location-specific prayer times, employing astronomical data.
- Constructed using Flask, offering a lightweight, **efficient backend structure** for responsiveness.
- Crafted a visually appealing, **user-friendly interface** optimized for responsiveness.

Stock Handler | *C#*   *Jan 2024 | Mar 2024*
- Developed advanced data visualization and pattern recognition to identify key market trends and patterns.
- Implemented C# file handling for accurate data extraction from CSV Files
- Leveraged OOP for modular code architecture, encapsulating data in classes for enhanced maintainability