

Mustafa Mannan

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Education

University of South Florida

Bachelor of Engineering in Computer Science

Tampa, FL

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: Python, C/C++, C#, Javascript, HTML/CSS,

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

Student Assistant

Doha, Qatar

Park House English School

Oct 2020 | May 2021

- Led group sessions of 10+ students, implementing interactive teaching techniques and increasing average exam grades by 20% for the following subjects: Maths, Physics and Computer Science.
 - Developed tailored study plans for 30+ students, resulting in an average of 10% increase in overall grade.
 - Collaborated with faculty and other tutors to create and deliver supplementary learning materials.
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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 | *Python, Tableau*

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

Tic Tac Toe Game with Unbeatable AI | *C, HTML, CSS*

May 2023 | Jun 2023

- Utilized the **Minimax algorithm** to design an AI opponent that makes **optimal moves**.
- Created a **user-friendly interface** to display the Tic Tac Toe board and allow user interactions.
- Conducted thorough testing to ensure the game's functionality and the AI's unbeatable nature.