

Mustafa Mannan

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Education

University of South Florida

Tampa, FL

Bachelor of Engineering in Computer Science

August 2021 | May 2025

Relevant Coursework: Programming Concepts, Computer Organization, Data Structures, Program Design, Discrete Mathematics, Logic Design, Linear Systems, Analysis of Algorithms, Software Engineering

Technical Skills

Languages & Databases: Python, C/C++, C#, Javascript, HTML/CSS, SQL, PostgreSQL

Frameworks: React.js, Flask, Django

Tools and Libraries: Github, VS Code, Docker, Sys, numPy, Scikit, tensorflow, BeautifulSoup, Selenium, AWS

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

Masjidy

Tampa, FL

Co-Founder & Lead Developer

April 2024 | Present

- Co-developed a cross-platform mobile app using React Native and Django to connect users with local mosques and the Muslim community, aiding mosques in managing donations, prayer times, announcements, and events.
- Orchestrated backend development, optimizing server performance and integrating secure authentication mechanisms, resulting in a 50% reduction in load times and a highly scalable architecture.
- Leveraged Redis for caching to decrease data retrieval times by 30% and utilizing PostgreSQL for consistent and reliable data storage.
- Established an algorithm to suggest mosques based on relevant factors, enhancing relevance and user engagement.
- Implemented AWS RDS and ElastiCache for efficient database management and data retrieval performance.
- Deployed and managed the application on AWS using Elastic Beanstalk for seamless scaling and load balancing.
- Designed and implemented APIs, ensuring functionality for both the app and external use, and authored comprehensive documentation for ease of integration and usage.
- Utilized Docker to containerize the application, ensuring consistent deployment across various environments.

Developer Intern

Doha, Qatar

Mowasalat

May 2022 | August 2022

- Collaborated to improve the Karwa app's bus scheduling and notification features by integrating real-time tracking, decreasing user-reported scheduling issues by 10%.
- Improved efficiency of app by refining notification features and redesigning UI; decreased user drop-off rate by 25 % and improved user engagement time by 20%.
- Engaged in the development of the taxi booking component, including integrating features for booking, tracking, and managing taxi rides.

Projects

Embassy AutoBook Script | *Python, Selenium*

January 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.

SBotify | *Python*

December 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%.

Enhancing Analysis: ML Approach | *Sci-kit, Pandas, NumPy*

July 2023 | October 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.
- Formulated and deployed a machine learning algorithm with linear regression; achieved 92% accuracy in predicting player performance.