

Muhammad Shaheer Ahmad

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Work Experience

Cyber Crime Wing FIA | Software Developer Intern

Nov 2023 – Feb 2024

- Developed a web application to manage internal inventory of items.
- Implemented admin specific features.
- Upgraded business efficiency by providing a centralized interface through the web application, replacing outdated systems for employees.

Avionics Solution | Software Developer Intern

Jul 2022 – Aug 2022

- Developed a console-based application to retrieve data from a sensor in HEX format and display it in human-readable tabular form to allow for analysis.
- Implemented a system that maintained log files of the tabular data to allow for review and analysis.
- Continued progress of existing code to expand the application.

Projects

MERN E-commerce website | MongoDB, Express, React, Node, Redux

- A web application that allows users to buy and sell products.
- Used JWT tokens to ensure secure user authentication.
- Provided secure routing for admin and secure operations.
- Implemented an admin feature that allows sellers to perform CRUD operations on their own products.

Lumina | Python, Streamlit, AssemblyAI, Clarifai

- A web application that takes a video's YouTube URL from the user, and generates MCQ-based tests, with automatic evaluation.
- Used AssemblyAI to transcribe the YouTube video for quiz generation context.
- Used Clarifai to integrate the GPT 4 model with the app.

Wurdle | HTML, CSS, JavaScript

- A web application where users guess a concealed 5-letter word in 5 attempts, providing real-time feedback on correct letters guessed and their positions.
- Used APIs to fetch a random five letter word and a hint associated with that word.
- Provided a newspaper-like user interface to increase immersion of the web application.
- Shows the weather forecast at the top of the newspaper.

Cocktail Recipe Generator | Python, Streamlit, Clarifai

- A web application where users upload images of fruits and the application identifies the fruits using an SVM model and generates a cocktail recipe from the identified fruits.
- Enabled batch processing by allowing users to upload multiple fruit images
- Developed a feature for automatic background removal, ensuring that only the fruit remains visible.

POS Billing System | Java, Swing, MySQL

- A desktop application that mimics the workflow of a billing procedure that is commercially applicable.
- Designed and integrated an admin portal, providing real-time visibility into inventory status and other relevant statistics for efficient management.
- Implemented a receipt generation feature to enhance the application's functionality and user convenience.

Technical Skills

Programming: Python, JavaScript, Java, C++, C#. **Web:** React, HTML/CSS. **Databases:** MongoDB, MySQL

Education

Bahria University Islamabad Campus | Bachelor of Software Engineering

Aug 2020 – Present

- CGPA: 3.88
- General Secretary of IEEE CS Chapter.