MACARTHUR DIBY

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EDUCATION

Texas Tech University - Lubbock, Texas   Graduation Date: Dec 2024
*Bachelor of Science in **Computer Science***   **GPA: 3.7**
*Minor in **Mathematics***

Dallas College - Dallas, Texas   October 2019 – May 2021
Associate of Science   **GPA: 3.8**

TECHNICAL SKILLS

- **Concepts**: OOP, DSA, SWE, DBMS, AI, Computer networks, Cloud computing.
- **Programming Languages**: Python, HTML, Java, C, C++, CSS, React, Node, .Net, C#.
- **Tools**: Linux, Command Line, Git, AWS services, Microsoft Office.

PROFESSIONAL EXPERIENCES

IT Help Central at Texas Tech- Lubbock, Texas   July 2022 - Present
Technician assistant III

- Resolved IT and application issues for over 150 students, reducing.
- Worked on an efficient ticketing system (ServiceNow) to monitor incoming service desk tickets, and track incidents.
- Managed telecommunications, data networking, and other technology services from installation to maintenance.
- Provided on-site support to student residents to assist with their computing needs, including internet connection setup, virus removal and overall system trouble shooting.

PROJECTS

MACHINE FAILURE PREDICTION - *(Python, Supervised Machine Learning)*   Jan 2024

- Developed a machine learning pipeline to predict machine failures using historical data.
- Cleaned and preprocessed datasets, addressing missing values, and engineered features to enhance model accuracy and interpretability.
- Implemented and trained a logistic regression model to classify machine failure events with high performance.
- Assessed model performance using key evaluation metrics including accuracy, precision, recall, and F1-score to ensure robustness in predictions.

PATIENT APPOINTMENT MANAGEMENT SYSTEM (python*, SQL, Flask, html, CSS, JavaScript)*   May 2024
Self-initiated Project

- Developed a full-stack web app for a clinic in Africa to manage appointments using Flask.
- Implemented secure authentication for patients and doctors to schedule, view, and manage appointments.
- Created separate menus for patients, doctors, and admins for efficient appointment handling.

POLITICAL MAP OF AFRICA *(HTML, CSS, JavaScript, AWS, API)*   Feb 2024-Now
Self-initiated Project / http://politicalmapafrica.s3-website-us-east-1.amazonaws.com

- Created a web application to help users understand the political history of African countries.
- Developed interactive country pages with curated videos detailing significant political events.
- Designed the "About" and "Contact" pages to provide project information and contact details.
- Implemented an interactive map using JavaScript for visual navigation of African countries.
- Utilized AWS S3 for hosting the static website, providing reliable and scalable infrastructure.
- Used Google analytics, and CloudTrail to analyze traffic, Restcountries API to get "about" of each country.

AI-POWERED DEBATE SYSTEM (Node.js, React, AI APIs)   Oct 2024- Now

- Built a platform simulating debates between AI models (GPT-4, Gemini, LLaMA, Gemma, Mixtral, GroqLLama) using Node.js and React.
- Integrated AI APIs to generate arguments and evaluate debates through referees, scoring arguments based on logic and relevance.
- Implemented Text-to-Speech for real-time accessibility and user engagement.
- Hosted the application on AWS EC2 and S3 and used Google Analytics to track traffic and user interaction.

ACTIVITIES AND ACHIEVEMENTS

- NSBE recruiter, HDJ IMPACT scholarship ($5000), Achiever competitive scholarship ($12000), Presidential &Dean's lists.