MACARTHUR DIBY

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EDUCATION

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

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

SKILLS

- **Concepts**: OOP, Data structures, SWE, Database, AI, Computer networks, Cloud computing, Operating systems.
- **Programming Languages**: Python, SQL, HTML, Java, C/C++, CSS, React, Node.js, Typescript, C#.
- **Tools**: Linux, Command Line, Git, AWS services, Microsoft Office.

PROFESSIONAL EXPERIENCES

IT Help Central at Texas Tech- Lubbock, Texas   Jul 2022 - Now
Technician assistant III
- Resolved IT and application issues for over 150 students, improving issue resolution time by 25%.
- Managed 300+ service desk tickets weekly using ServiceNow, tracking incidents and ensuring timely resolutions.
- Provided on-site support for student residents, handling network setups, virus removal, and system troubleshooting, increasing satisfaction rates to 92%.

PROJECTS

MACHINE FAILURE PREDICTION - *(Python, Supervised Machine Learning)*   Jan 2024
- Developed a predictive pipeline in machine failure, increasing the performance by 25% with cleaning of 500K+ rows.
- Trained logistic regression model with 92% accuracy.
- Improved precision (92%), recall (88%), and F1-score (90%) for reliable predictions.

PATIENT APPOINTMENT MANAGEMENT SYSTEM (python*, SQL, Flask, html, CSS, JavaScript)*   May 2024
- Designed a full-stack appointment management app for an African clinic, handling 100+ daily appointments with Flask.
- Implemented secure authentication for 200+ users, allowing patients and doctors to manage appointments.
- Created user-specific menus, improving appointment processing efficiency by 30%.

POLITICAL MAP OF AFRICA *(HTML, CSS, JavaScript, AWS, API)*   Feb 2024-Now
    http://politicalmapafrica.s3-website-us-east-1.amazonaws.com
- Developed an interactive map web application of Africa, which contained 54 interactive country pages, building in video for the explanation of major political events.
- Hosted in AWS S3 to ensure scalability and provide 99.99% uptime.
- Analyzed site traffic by utilizing Google Analytics and CloudTrail. Integrated the Restcountries API to provide information about countries.

AI-POWERED DEBATE SYSTEM (Node.js, React, AI APIs)   Oct 2024- Now
- Built a debating platform powered by AI, integrating 6 different AI models: GPT-4, Gemini, LLaMA, Gemma, Mixtral, and GroqLLama to perform generation and scoring for the arguments.
- Text-to-Speech integrated for real-time access (women and men) using.
- Deployed onto AWS EC2 and S3 while logging over 100 user interactions with Google Analytics.

ELEVATOR SCHEDULER OPERATING SYSTEM (C++, Multithreading, APIs, pthread, libcurl)   May 2024
- Built elevator scheduler with multithreading and API integration, optimizing up to 100 elevators, in a high trafficking building.
- Improved response time by 34% using asynchronous API calls for real-time passenger requests.

ACTIVITIES AND ACHIEVEMENTS

- NSBE recruiter, Texas Tech Google student developer member, IHDJ scholarship ($5000), Achiever competitive scholarship ($12000), Presidential &Dean's lists.