

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

Courses: Object-Oriented Programming, Data Structures, Software Engineering, Databases, Artificial Intelligence, Computer Networks, Cloud Computing, Operating Systems.

SKILLS

- **Programming Languages:** Python, SQL, HTML, Java, C/C++, CSS, Typescript, C#.
- **Frameworks:** React, Node.js, Flask, TensorFlow, Keras, Pandas, NumPy.
- **Tools:** Linux, Command Line, Git, AWS (EC2, S3, Lambda), Microsoft Office, Jira, Docker, Kubernetes, ServiceNow.
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **DevOps & CI/CD:** Jenkins.

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%**.
- Led a team of junior tech assistants to streamline issue resolution processes, achieving a **15%** reduction in repeat tickets.

PROJECTS

MACHINE FAILURE PREDICTION - (Python, Supervised Machine Learning)

Jan 2024

- Built a **predictive pipeline** achieving **92%** accuracy in forecasting machine failures using logistic regression.

PATIENT APPOINTMENT MANAGEMENT SYSTEM (Python, SQL, Flask, html, CSS, JavaScript) [Link](#)

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) [Link](#)

Feb 2024-Now

- Developed an **interactive web application** with **54 country pages**, each featuring videos on major political events; hosted on **AWS S3** for scalability and **99.99%** uptime.
- Integrated **Restcountries API** for dynamic country data and utilized **Google Analytics** and **CloudTrail** for comprehensive traffic analysis.

AI-POWERED DEBATE SYSTEM (Node.js, React, AI API, AWS) [Link](#)

Oct 2024- Now

- Designed a platform integrating **6 AI models** for argument generation and scoring, supporting **100+ user interactions**.
- **Text-to-Speech** integrated for real-time access (women and men) using.

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.

DROWSINESS DETECTION SYSTEM (Python, OpenCV, Flask, React Native, AWS) [Link](#)

Nov 2024-Now

- Developed a **real-time system** to detect **driver drowsiness** using **eye-tracking**, **machine learning**, achieving **95%** accuracy.

ACTIVITIES AND ACHIEVEMENTS

- **NSBE Texas tech University** recruiter, **Texas Tech Google** student developer member.
- Awarded **Achiever Scholarship** for outstanding academic and project contributions in Computer Science,
- Multiple **Dean's List** appearances.