

Axel Marungike

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EDUCATION

Brookhaven College, Farmers Branch, Texas

Associate degree in science - Field of study in Computer Science

May 2020

University of Texas-Arlington, Arlington, Texas

Bachelor's degree in Computer Science(expected)

Dec 2022

SKILLS AND EXPERTISE

Languages: Java, Javascript, DART, HTML, CSS, Python, NoSQL, SQL, C/C++, Unix/Linux, ROS.

Framework/Tools: Git, Flutter, Firebase, MariaDB, Flask, Ruby on rails, AWS Cloud9.

PROJECTS

MavStudy-Flutter booking application(School team project)

April 2022

Cross platform booking system application for UT-Arlington students to reserve study rooms

- Built user-friendly UI to maximize efficiency of booking process and error prevention.
- Developed a booking system with constraints to the number of reservations and notification system.
- Tools used: Flutter, DART, Firebase

FastMaps(Senior Design Project)

August 2022

Mass transit app for the DFW Metroplex

- Converted static GTFS data and into a GeoJSON format to create a custom map illustrating public transportation networks using Mapbox Studio.
- Combined Mapbox APIs to enable turn by turn navigation instructions as well as predictive address searching.
- Applied Dijkstra algorithm in python to GTFS data to find optimal routes between bus/train stops

Art gallery webpage

December 2021

Web page linked to a custom database to manage an art gallery

- Built relational database using SQL in MariaDB to store transactions, buyers and artists data.
- Deployed a webpage using Python and Flask to apply CRUD operations.

EXPERIENCE

Student Assistant • Student Access and Resources • UT-Arlington

September 2020–August 2021

LEADERSHIP & ORGANIZATIONS

Member of EE Autonobots, an embedded systems, automation, and robotics club. Currently on the programming team of an Unmanned Ground Vehicle (UGV) for a national competition. || Member of the Nation Black Society of Engineers (NSBE) UTA chapter. || Member of Phi Theta Kappa (PTK) honors society.