

# GODFREY OSAGIEDE

Texas, United States

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## Education

### Texas Tech University

September 2018 – May 2024

*Bachelors in **Computer Science**, Minor in **Mathematics**.*

*Texas, United States*

- **Courses include:** Software Engineering, Computer Architecture, Object Oriented Programming, Data Structures, Design and Analysis of Algorithms, Operating Systems, Parallel Programming, Artificial Intelligence, Database Systems, Computer Security and Web Development.
- **Certifications include:** Google Developer Student Club **Web Development Certificate** and **Introduction to JavaScript**.

## Experience

### Texas Tech University

August 2023 – December 2023

*Academic Information Systems & Services (AISS) Intern*

*Texas, US*

- Developed an innovative **PowerShell** script in **Bash** that optimized PC setup processes, achieving a remarkable **45% reduction** in setup time, significantly enhancing efficiency and productivity within the **IT infrastructure** at Texas Tech University's AISS department.
- Oversaw the end-to-end management of hardware life cycle, including strategic planning for equipment replacement, data security, and contributing to environmental sustainability through hardware recycling.

### Google Hackathon

March 2023 – April 2023

*Third Place Participant, People's Choice Award Winner*

*Texas, US*

- Participated in a team to develop and present a **full-stack web application** to help make education more accessible by way of a search engine that specifically curates academic content.
- Built the application using **React on the front-end**, with **MySQL, NodeJS and Heroku** on the **back-end**, hosted on a **GoogleCloud** instance.

### Amazon

June 2022 – August 2022

*Area Manager Intern*

*Nevada, US*

- Implemented **Dijkstra algorithm** with **Python** to better analyze time and rate of employees to better identify key float and critical path tasks.
- Innovatively **redesigned workflow processes**, significantly reducing idle time, improving **path efficiency**, and promoting safer work environments, ultimately saving the company **\$117,352** annually—a strategy implemented in all local divisions.

## Projects

### Algorithm Visualizer | *Python, PyGame, VSCode*

- Designed and implemented an interactive Algorithm Visualizer using **Python for Backend** and **Pygame for Frontend**, which dynamically demonstrates sorting algorithms (**Bubble Sort and Insertion Sort**) in real-time. **Addressed technical challenges** such as preventing pixel overlap.
- **Enhanced user engagement** and understanding by incorporating features like ascending/descending order sorting, mid-sort pausing and algorithm switching, effectively translating complex algorithmic concepts into an **intuitive visual format**.

### Healthcare Appointment Management System | *Python, MySQL, VSCode*

- Designed a **Database Management System** with a command line interface using **Python** for the Backend and **MySQL** for the database.
- Maintained security by implementing a **multi-user authorization** system where Doctors, Patients and Admin staff possessed varying labels of access and **permission based menu** functionalities. Utilized **input sanitization** strategies to prevent SQL injection attacks.

### Music Recommendation System | *Python, JavaScript, Streamlit, HTML, CSS, Jupyter*

- Developed a music recommendation system featuring a user-friendly **web interface** using **Streamlit** Incorporated with **HTML, CSS and JavaScript** for frontend and **Python** for backend processing, for **enhanced interactivity**.
- Implemented **advanced machine learning algorithms**(**K-means clustering and isolation forest**) to analyze user listening patterns, effectively delivering **personalized music suggestions**.

## Skills

**Technical Skills:** Python, C/C++, Java, JavaScript, TypeScript, NodeJS, SQL, NoSQL, HTML, CSS, Django, React, RestAPI, API, Bash, Linux, Git, Assembly, Bootstrap, PyGame.