IFECHUKWUDENI TEDDY OWEH

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Research & Work Experience:

Tarleton State University, **Stephenville Texas**   (Jan 23 - Present)
Computational Modeling Research Student (Texas Institute Applied For Environment Research)

Development and implementation of computational models to support environmental research
initiatives at the institute.
Worked with agricultural researchers to design models that can simulate environmental
processes, as well as testing and refining these models to ensure their accuracy and reliability.
Implementing High-Performance Computing Optimization for Enhanced Systemic Execution
and Models
Skills Applied: Python, C++, AWS, VB.net.

Tarleton State University, **Stephenville Texas**   (Feb 22 - Present)
*Lead Student Researcher (*Electrical & Computer Science Department)

MINI BATCH RINDEX
Implemented a hybrid feature selection method, analyzed results, developed an algorithm for
feature selection, and preprocessed data to improve machine learning model accuracy
Skills Applied: Scikit-learn, Pandas, Matplotlib, Seaborn, XGBoost
Rubi Logistics, Abuja FCT, Nigeria.   (Dec 22 - Present)
Lead Software Engineer,

Led a team of software engineers to develop a mobile application for a logistics company that
allows users to order and track shipments. Designed and implemented the front end of the
application using React Native, and developed an API system to handle authentication, database
communication, and live geolocation tracking.
Skills applied: React Native, Redux, Redux Thunk, API design, NodeJS, MongoDB, Google
Maps API, Java, Scala.

Tarleton State University, Stephenville Texas   (May 22 - Sept 22)
Student Researcher (Mathematics Department)

Model Of Disease Spread Using Stochastic Processes on Networks.
Developed a disease spread model using stochastic processes on networks and analyzed data to
optimize the model while working with a team to solve and create mathematical and
epidemiological models
Stochastic Processes Source Code

Tarleton State University, Stephenville Texas   (Sept 22 - Dec 22)

Student Tutor/Grader, Intro to Computer Science.
Assisted the professor in explaining intermediate Python programming concepts to students.
Projects:
More of my projects are opensource on my GitHub Profile - https://github.com/teddyoweh

NASA USLI Rocket Payload: (Aug 22 - Present)
- Developed a payload system for image capture and processing using a Raspberry Pi camera and stepper motors.
- Implemented hardware engineering principles and used object-oriented programming for payload driver code.

Rocket Team Social Media, PR Website and Website Lead   (Aug 22 - Present)
- Managed and oversaw the entire social media presence of Tarleton Rocket Team.
- Developed the Tarleton Rocket Team Website

Machine Learning
- **Cheat Model:** Developed a text classification model using NLP and classifiers and integrated it into an API using Python Flask.
  Source Code: https://github.com/teddyoweh/cheat-model

- **Omark**: Developed and published a Python library with a facial search algorithm that uses a binary search algorithm on a facial recognition model to efficiently identify faces that are absent in a dataset.
  Source Code: https://github.com/teddyoweh/Omark

Web, Software and Mobile Development.
- **VoiceOut**: Developed a social network mobile application featuring features and concepts from Twitter and YIKYAK.
  Technical Skills: React Native, React Redux, Mongodb, Nodejs, JWT, TwilioAPI.
- **Beardb:** Developed and published a Python Database system library implementing AES encrypted versions JSON of data. Easy to access, manage and deploy remotely. Implemented a client class to effectively allow users access the data when deployed using the BeardbAPI microservice
  Source Code: https://github.com/teddyoweh/beardb
  Web Documentation: https://www.beardb.net/
- **BeardbAPI**: Developed and Published a Python API microservice library to deploy JSON Databases Remotely using Beardb database system.
  Source Code: https://github.com/teddyoweh/beardb-api
- **Personal Website**: Developed a personal website using ReactJs for frontend, developed and integrated backend API services using Nodejs and Monogdb, to receive and store contact information and track views.
  Source Code: https://github.com/teddyoweh/teddyoweh.net

Skills:
AWS | GIT | Python | Java | C | C++ | ReactJS | VueJS | Angular | PHP | React Native | Nodejs| MongoDB | PostgresSQL | MYSQL | Matplotlib | Machine Learning Modelling | NLP Techniques | Seaborn | Google Cloud Platform | Linode | Digital Ocean | Heroku | Vercel

Education:

- Tarleton State University, Stephenville TX, Spring 2022 - Fall 2025
  - B.S. in Computer Science, Artificial Intelligence and Data Science, Honors.
  - Tarleton Computer Society (President), Student Government Association (College of Engineering Congressman. Student Research Association, IEEE Tarleton Branch (Social Media Lead), Tarleton Rocket Team (Payload Engineer, Social Media and Website Lead), Tarleton Table Tennis Club (President)