# MOHAMMED SAABIQ SAHA

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## **EDUCATION**

**Grambling State University** 

Major: Bachelor of Science in Computer Science

Relevant Coursework: Data Structures and Algorithms, Intro to Computer Science, Calculus I, Intro to Data

Analytics

#### **EXPERIENCE**

# Nasari - Grambling, Louisiana

Aug 2024 - Present

**Expected Graduation: May 2028** 

## **GSUhub** Project Lead

- Led a team of 7 students to build <u>GSUhub</u>, a platform for students at Grambling State University to trade items and offer services, currently with 143 students on the waitlist.
- Managed team's workflow with GitHub Enterprise, conducting 45+ code reviews and resolving 16 merge conflicts in 2 months.
- Led efforts to secure a \$2,500 sponsorship from Microsoft, including Azure credits and a year of access to premium products.

## Globin Suite - Tamale, Ghana

Feb 2023 - May 2023

Full Stack Developer

- Trained a deep learning model using Azure Custom Vision, on a dataset of 5000 blood cell images, identifying malaria falciparum and sickle cell infections with 94% accuracy.
- Implemented RESTful API to deploy the trained model for realtime plasmodium detection.
- Converted model to TensorFlow Lite, enabling offline disease detection in remote areas.

#### **PROJECTS**

# Market for Local Farmers (Nasari Farm)

**Github** 

- Crafted a responsive UI with React and Tailwind CSS for seamless navigation and transactions.
- Implemented user authentication (login and sign-up) and secure Stripe payments.
- Developed an admin panel with real-time analytics for managing 17 market products and 6 vendors.
- Optimised a MongoDB database for scalable user data management and reduced query time by 10%.

## Maize Disease Classifier (Web App) (MGv1.1)

Demo | Github

- Developed a convolutional neural network with TensorFlow Keras to detect Common Rust in maize plants.
- Optimized model training on 2500 images (2GB dataset) with 50 epochs and 16 batch size.
- Implemented Early Stopping and dropout layers to prevent overfitting by 60%.
- Designed a user-friendly Streamlit app for farmers to diagnose maize plants with 92% accuracy.

#### **SKILLS**

- **Programming languages**: Python, JavaScript
- Frameworks: React, Streamlit
- Libraries: TensorFlow, Keras, scikit-learn, NumPy, pandas
- **Technologies**: Git, Azure, Firebase

# **EXTRACURRICULAR ACTIVITIES**

- Co-Founder, Rhizone
- Member, Colorstack

Oct 2022 - Present

June 2024 - Present