

# Mensah Philemon Edem Yao

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## Education

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### University of Ghana, Legon

BSc Computer Engineering

Jan 2024 – Present

- First Class Academic Standing
- Key Courses: C++ Programming, Calculus I & II, Linear Algebra, Mechanics, Database Management, Applied Electricity

## Skills

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- *Programming:* Python, JavaScript, C++, SQL (PostgreSQL)
- *Web Development:* React.js, Django, HTML, CSS
- *Data Analytics:* Pandas, NumPy, Matplotlib
- *Hardware:* Arduino, Sensor Systems
- *Collaboration & Tools:* Team collaboration, Git, GitHub
- *Language:* English

## Projects / Experiences

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### Educational AI-Integrated Web Platform

Tech stack: Django, React, PostgreSQL, AI with RAG (Retrieval-Augmented Generation)

- Designed and developed a web platform that integrates AI-powered Q&A for students using a custom-built RAG system.

### Security System with Arduino

- Engineered a secure entry system using Arduino that recognizes specific knock patterns and validates with password authentication.
- Demonstrated understanding of embedded systems and real-world problem-solving.

### Data Analysis on Kaggle Datasets

- Conducted in-depth exploratory data analysis to identify patterns and trends in diverse datasets.

### Accra Mobility Prediction Hackathon (Zindi x Yango, 2024)

- Participated in a data science hackathon focused on predicting urban mobility trends in Accra using real-world transport data.
- Applied machine learning techniques for time series prediction and route optimization.

## Extracurricular Activities

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- Active school gym membership
- Basket ball