

SEBASTIAN YENG

FULL STACK DEVELOPER

[LinkedIn](#) | [Github](#) | yengsebastians@gmail.com

PROFILE SUMMARY

I am a versatile software engineer with expertise in Python, Django, Node.js, and React.js, skilled in creating user-focused applications with seamless, responsive interfaces. Adaptable and driven, I excel in both backend and frontend development, embracing modern technologies and agile practices. With a strong emphasis on collaboration and teamwork, I am committed to delivering high-quality software solutions while continuously refining my skills and contributing to organizational success.

PROJECT EXPERIENCE

Diet Recommendation System

June 2024 - September 2024

- Developed a diet recommendation system utilizing a machine learning model to provide personalized meal plans based on users' BMI and health conditions.
- Conducted research and data collection on Ghanaian and international food datasets, integrating nutritional information such as calories, protein, vitamins, and health benefits.
- Trained a machine learning model using TensorFlow to analyze user health data and recommend suitable diets for breakfast, lunch, and dinner.
- Built the app using Python-Django to manage user data, process recommendations, and integrate the machine learning model effectively.
- Conducted thorough testing and validation of the model and system to ensure accurate and reliable recommendations.
- Documented the research process, model development, and system implementation to support future improvements and facilitate scalability.

Smart Examination Attendance Management System (SEAMS) using Face Recognition University of Energy and Natural Resources, Sunyani, Ghana

June 2023 - October 2023

Position: Research Assistant and Full Stack Developer

- Conducted research on facial recognition technology to replace manual attendance systems to enhance accuracy and security.
- Planned and designed the application's architecture, focusing on seamless integration of face recognition features.
- Developed the frontend interfaces using React.js and Material Design to create a user-friendly and visually appealing experience.
- Implemented backend logic and REST APIs using Django to manage data and support application functionality.
- Utilized face recognition libraries such as OpenCV, Dlib, and Face_recognition for accurate facial feature detection and identification.
- Performed integration of frontend and backend components, ensuring effective communication and functionality.
- Executed extensive testing and debugging processes to refine and stabilize the application.
- Documented research findings and technical processes, providing valuable insights for future enhancements and scalability.

WORK EXPERIENCE

Mass SMS Message Application (TekNotify)

November 2023 - Present

Kwame Nkrumah University of Science and Technology (National Service)

Position: Full Stack Developer

- Participated in all stages of the systems development lifecycle, from requirement gathering to production releases.
- Developed and implemented a web-based SMS messaging application, TekNotify, designed to facilitate communication within the university community.
- Translated UI designs from Figma into responsive web components using HTML and Bootstrap to create an intuitive user interface.
- Implemented backend functionalities using the Django framework, enabling features such as user message requests, targeting specific audiences, and payment processing.
- Designed and documented a REST API to interface with a Flutter mobile app, allowing for seamless message management and dissemination.
- Integrated the application with an existing API to enable users to send messages efficiently while ensuring the system could handle diverse requests from the university community.
- Conducted extensive testing to ensure application stability, accuracy, and user satisfaction.

Asset Tracking

November 2023 - Present

Kwame Nkrumah University of Science and Technology (National Service)

Position: Backend Developer

- Participated in all stages of the systems development lifecycle, from requirement gathering to production releases
- Conducted in-depth research to understand and define system requirements, leading to effective database modeling using ER Studio.
- Developed APIs using .NET to facilitate seamless integration and functionality of the asset tracking system.
- Contributed to comprehensive documentation of the APIs, ensuring clear and precise guidelines for future development and maintenance.

Hepeps Solution (Remote)

January 2024 - April 2024

Clinical Communication Network (CCN)

Position: Backend Developer

- Collaborated with a fellow developer to define and implement OWAPS high-level security and functional requirements for the Clinician Communication Network (CCN) project, a Flutter-based chat app with a Node.js backend. This platform connects doctors across various specialties with patients, enabling direct messaging, video calls, and audio calls.
- Led the backend development, creating and optimizing APIs using Node.js to support real-time communication features. Conducted thorough database modeling to ensure scalability and performance, aligning with the app's needs for doctor-patient interaction.
- Created detailed API documentation, providing clear instructions for future enhancements and maintenance.

FEAD-Ghana Website

November 2023 - December 2023

Female Empowerment and Advocacy for Development (Remote)

Position: Full Stack Developer

- Developed and implemented web-based solutions for FEAD Ghana, an NGO, enhancing their online presence and operational efficiency.
- Translated design specifications into functional web pages using HTML and Bootstrap, ensuring a user-friendly and responsive interface.
- Built and integrated backend functionalities using the Django framework to support the NGO's operational needs and data management.
- Managed the deployment and hosting of the project, ensuring reliable and secure access to the application.

Yenko App

October 2022 - December 2022

Hepeps Solution (Internship)

Position: Full Stack Developer

- Actively participated in the planning process and contributed significantly to the development strategy for a project management system called Yenko.
- Created comprehensive project scope and roadmap documents to guide the development process of the Yenko project.
- Developed frontend interfaces using the React.js framework, ensuring a responsive and user-friendly experience.
- Implemented backend logic with the Django framework to manage data and support application functionalities.
- Conducted thorough integration of frontend and backend components, performing extensive testing and debugging to ensure feature reliability.
- Deployed and hosted the backend ensuring stable and secure access to the application.

EDUCATION

BSc. Computer Science

2019-2023

University of Energy and Natural Resources

West Africa Senior School Certificate Examination

2016-2019

Lawra Senior High School, Lawra, Upper West.

General Science

SKILLS

- Programming Languages: Python, JavaScript, C++, C#, PHP, Dart
- Web Development: React.js, Redux, Node.js, Django and Django Rest Framework, ASP.NET, HTML, CSS, Bootstrap, Tailwind CSS
- Data Analysis and Machine Learning: Pandas, NumPy, Scikit-Learn, TensorFlow
- Database Management: Oracle, PostgreSQL, MySQL
- Tools and Technologies: Git, GitHub, Azure DevOps

ADDITIONAL TRAINING

- Completed a three-month software development program at the Ghana-India Kofi Annan Centre of Excellence in ICT.
June 2021 - September 2021
- Completed a six-week Artificial Intelligence Career Essentials program at African Leadership Academy (ALX)
March 2024 - April 2024

AWARDS/CERTIFICATIONS

- Certificate in Computer Software Development from Ghana India Kofi Annan Centre of Excellence in ICT
- Certificate of Participation in UENR SRC Hackathon with Team Pi Codes
- Certificate of Participation in Departmental Hackathon with Team Binary Beast
- Certificate of Participation in SRC skills fair in Cyber Security program
- AI-Augmented Professional Development Skills in the Digital Age