

SEBASTIAN YENG

FULL STACK DEVELOPER

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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

Project Management Tool (Django & React)

- Developed a comprehensive project management tool using Django for the backend and React for the frontend. The application supports task management, project tracking, and team collaboration, featuring user authentication, real-time updates, and data visualization to enhance project efficiency and team productivity.

Movie Search App (Node.js & TheMovieDB API)

- Built a movie search application with a Node.js backend, utilizing TheMovieDB API to provide real-time movie information and search functionality. The app allows users to search for movies, view details, and manage a list of favorite movies, featuring a responsive and user-friendly interface.

Diet Recommendation System (Django FullStack)

- A Python-Django application integrating a TensorFlow-based machine learning model to provide personalized meal plans based on user health data, including BMI and dietary needs. The system utilized extensive research and datasets on nutritional information.
- Collected some data on Ghanaian and international food, and trained the machine learning model for accurate recommendations and testing to ensure the system's reliability and scalability.

Smart Examination Attendance Management System (SEAMS) using Face Recognition (Django & React)

University of Energy and Natural Resources, Sunyani, Ghana

Position: Research Assistant and Full Stack Developer

- Conducted research and integrated facial recognition technology into a Django and React-based system to replace manual attendance processes, enhancing accuracy and security.
- Developed the frontend with React.js and Material Design for a user-friendly interface, and implemented backend logic and REST APIs using Django, integrating face recognition libraries for accurate detection and identification..
- Performed extensive testing and debugging to ensure application stability and documented research findings and technical processes for future improvements 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

- Developed TekNotify, a web-based SMS messaging application, handling all phases from requirement gathering to production using Django for the backend and HTML with Bootstrap for frontend.
- Translated Figma designs into responsive web components, designed and documented a REST API for integration with a Flutter mobile app, and ensured smooth messaging requests
- Conducted comprehensive testing to ensure system stability, accuracy, and user satisfaction, integrating the application with an existing API to handle diverse messaging requests efficiently.

Asset Tracking

November 2023 - Present

Kwame Nkrumah University of Science and Technology (National Service)

Position: Backend Developer

- Developed APIs using .NET for the asset tracking system, ensuring seamless integration and functionality.
- Conducted thorough research and defined system requirements, leading to effective database modeling with ER Studio and creating of database tables
- Contributed to detailed API documentation, providing clear 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 Yenke.
- Created comprehensive project scope and roadmap documents to guide the development process of the Yenke 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, Material UI
- Data Analysis and Machine Learning: Pandas, NumPy, Scikit-Learn, TensorFlow
- Database Management: Oracle, PostgreSQL, MySQL, MongoDB
- 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