

BONFACE MULI

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PROFESSIONAL SUMMARY

I am a skilled software engineer with over 3 years of experience specializing in building and deploying innovative solutions across various technologies. My expertise spans multiple programming languages, frameworks, and cloud environments, enabling me to design, develop, and implement robust, scalable systems.

Core Competencies:

Programming & Development: Proficient in Python, Java, and JavaScript with hands-on experience in modern front-end development using ReactJS and back-end frameworks like FastAPI.

Machine Learning & AI: Adept in utilizing ML libraries/frameworks and generative AI tools such as LangChain, OpenAI, and Claude to create intelligent applications, including chatbots and conversational AI systems.

DevOps & Cloud: Skilled in CI/CD pipelines, cloud platforms like AWS and GCP, and deployment tools like Heroku, ensuring seamless and efficient application delivery.

Web Development: Strong foundation in HTML, CSS, and JavaScript for building user-friendly interfaces and experiences.

Database & Networking: Experienced in database management and internet networking for reliable data storage and connectivity solutions.

Software Design: Expertise in designing scalable and maintainable software architectures.

I am passionate about leveraging cutting-edge technology to solve complex problems and delivering impactful solutions that drive innovation and efficiency.

EXPERIENCE

Oct. 2024 - Present
Nairobi

MLOps, AI/ML Research & Development Remote

Collaborating with a UK-based Doctor, contributing to cutting-edge machine learning applications for study and experimentation. Successfully implemented machine learning frameworks and developed LLMs (Large Language Models) for research purposes.

- AI-Powered Applications: Designed and fine-tuned LLMs for text generation, summarization, and classification tasks.
- Machine Learning Frameworks: Proficient in TensorFlow, PyTorch, Hugging Face Transformers, and Scikit-learn for model development and optimization.
- Research & Development: Experimented with BERT, GPT, and T5 models to enhance NLP capabilities.
- Application Development: Built AI-driven tools for real-world use cases, demonstrating expertise in model deployment, API integration, and automation.

June. 2024 - March. 2025
Nairobi

ICT Technician, Robisearch Company Ltd

- Installation of ERP & Point of Sale Systems: Implementing Enterprise Resource Planning and POS systems customizing configurations to meet business needs.
- System Maintenance and Technical Support: Troubleshooting and resolving hardware and software issues to ensure uninterrupted operations of existing computer systems.
- ETIMS Integration: Seamlessly integrating the Electronic Ticketing and Information Management System with existing platforms ensuring compliance with regulations and robust performance.
- Web Development: Designing and delivering full-stack websites tailored to client requirements focusing on functionality scalability and user-centric design.
- Research of Developed Software: Evaluating existing software to identify improvement areas ensure alignment with industry standards and enhance user experience.
- Innovation Delivery: Introducing emerging technologies and tools like AI and data visualization to enhance business processes and solutions.

EDUCATION

December. 2024

Bachelor of Science:Informatics

- Rongo University, , Migori

November. 2018

Certificate of Secondary Education:Secondary Education

- Starehe Boys Centre & School, Nairobi

SKILLS

Experienced	AI / ML Frameworks
Experienced	APIs: FastAPI, RESTFUL API
Experienced	Project Management
Skillful	AWS and GCP
Skillful	Backend using NodeJS
Experienced	Database Management
Expert	Web Development [Fullstack]

CERTIFICATIONS

- Software Engineer: HackerRank
- Nairobi Data Sceince Hackathon
- Java: Digital Learning Academy
- AWS Completion Course: AWS
- Statistics for Machine Learning: Digital Learning Academy
- Python: HackerRank
- AI Projects: Digital Learning Academy
- Digital Image Processing: Digital Learning Academy
- Data Visualization using Machine Learning: Digital Learning Academy
- Cloud Foundations: Digital Learning Academy

PROJECTS

AI FACT CHECKER: 12/2024 - 01/2025

Developed an AI-powered fact-checking application with 96% accuracy using Streamlit for the frontend and PyTorch for the backend. The application classifies news articles as real or fake, leveraging a fine-tuned BERT model for sequence classification.

It includes multilingual support for input and output translations using the Google Translator API. Deployed the application on hugging face at [Link](#).

SchoolGPT: 12/07/24 - 12/12/24

Developed a generative AI-powered chatbot application tailored for university-level engagement, enabling users to obtain detailed feedback on content from PDF, DOCX, and web sources. The project integrates interactive chat functionalities to streamline academic and research inquiries.

Key Features:

- Implemented user-friendly chat interface using Streamlit for seamless interaction.

- Enabled document parsing and feedback generation using advanced AI models and APIs.
- Incorporated support for handling multiple chat sessions with a summary view for easy navigation.
- Designed a modular and scalable architecture leveraging FastAPI and RESTful endpoints.
- Enhanced usability with CSS styling and interactive elements for responsive user experience.

This project demonstrates expertise in Python, Generative AI, LangChain, OpenAI, and the development of practical AI solutions for educational environments. [Link](#)

CourseGPT: 01/04/2024 - 30/08/2024

Designed and developed an AI-driven chatbot application to assist students in studying their courses effectively using GPT and machine learning techniques. This project focused on creating an interactive platform for answering course-related queries, providing quick and accurate responses based on a pre-trained model.

Key Features:

- Leveraged FastAPI to build a robust and scalable RESTful API for handling student queries.
- Implemented TF-IDF Vectorization and a Naive Bayes Classifier for accurate text classification and response generation.
- Preprocessed and trained on a custom dataset of course-related questions and answers for domain-specific expertise.
- Enabled real-time interaction with case-insensitive query handling for a seamless user experience.
- Applied modular design principles to ensure maintainability and scalability of the application.

This project showcases proficiency in Python, Machine Learning, FastAPI, and developing practical AI tools tailored to enhance student learning experiences. [Link](#)

Population Analysis Using ML: 01/01/24 - 04/01/24

Developed a Streamlit-based web application for analyzing population trends using machine learning models and advanced data visualization techniques. The application provided insights into population demographics, growth patterns, and predictive analysis through an intuitive and interactive interface. Deployed the application on Streamlit Cloud. [Link](#)

More Projects on:

[Github](#) & [HuggingFace](#) & Web

ACHIEVEMENTS

- Best Sportsman of The Year (01/2018 - 11/2018)
Awarded for being the best sportsman of the year in 2018
- Sports Director (11/2017 - 11/2018)
Awarded for being the Sports Director