CLIFFE OWINO IBANDE

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EDUCATION

Kisii University, Kisii County, Kenya

Bachelor of Science in Software Engineering

2020 – Dec 2024

Maseno School, Kisumu County, Kenya

Kenya Certificate of Secondary Education

2016 – Dec 2020

CERTIFICATIONS & ADDITIONAL COURSES

- **Cisco Certified Network Associate (CCNA)** – Advanced Networking & Cybersecurity Course, 2024
- **Large Language Models (LLM): Foundations & Applications** – DeepLearning.AI, 2024
- **Cloud Architecture & DevOps Essentials** – AWS/Azure, 2023

TECHNICAL SKILLS

Languages:

Python, JavaScript, TypeScript, SQL,

Web & Mobile Frameworks:

Node.js, React, Next.js, Django, Flask, React Native, Nest.js, Material-UI, GraphQL

Developer Tools:

Git, Docker, Kubernetes, Jenkins, VS Code, PyCharm, IntelliJ, Eclipse

Libraries & AI:

Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers

Cloud & DevOps:

Huawei Cloud, AWS, Azure, Google Cloud Platform, CI/CD pipelines

Networking:

Network configuration, security protocols, Cisco routers & switches, advanced troubleshooting

EXPERIENCE

Software Developer

Techsavannah

Sep 2024 – Jan 2025

- Delivered bespoke software solutions and IT consulting services for a diverse portfolio of industry clients.
- Integrated microservices architectures and containerized applications to streamline deployment and scalability.
- Collaborated with cross-functional teams to optimize business processes and implement modern tech stacks.

Undergraduate Industrial Attachment

Huawei Tech. (Kenya) CO., LTD

June 2023 – Aug 2023

- **Data Engineering:** Designed and refined data models for efficient data organization and management.
- **Dashboard Development:** Created interactive dashboards that enhanced data visualization and strategic decision-making.
- **Data Cube & Analytics:** Assisted in building and maintaining data cubes for advanced analytics and reporting.
- **Network Monitoring:** Compiled detailed network experience reports using advanced data analysis to identify performance enhancements.

PROJECTS

Mobile Development

JamiiBudget

React Native, Appwrite, Node.js, TypeScript

Sept 2024 – Jan 2025

- Developed a comprehensive full-stack expense tracking mobile application with robust financial management features.
- Implemented secure user authentication and real-time analytics with Appwrite as the backend service.
- Enhanced user experience through intuitive interface design and responsive layouts.

Web Development

SkillUp

Python, Flask, React, SQL, Docker, Next.js, K-means, Git

Jan 2024 – Present

- Created a machine learning-based web application that analyzes skill gaps to align workforce development.
- Integrated modern RESTful APIs with Next.js and React for seamless data visualization and collaboration tracking.
- Expanded functionalities to include personalized training recommendations using AI.

Royal Watches

MERN Stack (MongoDB, Express.js, React, Node.js), GraphQL, Tailwind CSS

Mar 2024 – May 2024

- Developed a dynamic e-commerce website featuring product listings, secure user authentication, and integrated payment gateways.

- Leveraged GraphQL for efficient data querying and Tailwind CSS for a modern, responsive design.

Shutter Spot

MERN Stack (MongoDB, Express.js, React, Node.js), Google Maps API, Material-UI

Feb 2024 – Apr 2024

- Built a platform connecting photographers with a global clientele using location-based services.
- Integrated Google Maps API to enhance location discovery and streamline client-photographer interactions.
- Delivered a user-friendly interface focused on simplicity and responsiveness.

Osasuna-Fc

Node.js, React, JavaScript, MongoDB, Express, Git, HTML/CSS

Nov 2023 – Dec 2023

- Developed a full-stack web application employing the MVC pattern for scalability and maintainability.
- Optimized backend processes and ensured efficient data handling with MongoDB.

Motimarket – Car Sales Platform

React (TypeScript), Python Django REST Framework, PostgreSQL

Mar 2024 – Present

- Developed a full-featured car sales web application with comprehensive listings and advanced search filters.
- Implemented secure user authentication and efficient data management using Django REST Framework and PostgreSQL.
- Focused on a modern UI/UX design to enhance user engagement and conversion rates.

AI, Machine Learning & LLM Projects

SkillUp AI Enhancement

Python, Flask, React, SQL, Docker, K-means, Hugging Face Transformers

Jan 2024 – Present

- Integrated large language models into the SkillUp platform to enhance natural language processing and data analysis.
- Developed clustering algorithms and personalized recommendation engines to drive targeted training initiatives.

ConversaAssist – Conversational AI Chatbot

Python, Flask, Hugging Face Transformers, Docker

Feb 2024 – Present

- Developed an intelligent conversational agent for customer support that leverages state-of-the-art LLM APIs.
- Designed and implemented RESTful endpoints for real-time query handling and FAQ resolution.
- Integrated containerization for scalable deployment, reducing response times and enhancing user engagement.

SmartDoc Summarizer – Automated Document Summarization Tool

Python, FastAPI, Hugging Face Transformers, PostgreSQL

Jan 2024 – Present

- Built a web service that processes lengthy documents and generates concise summaries using pre-trained LLMs.
- Implemented API endpoints to handle document uploads and summary retrieval, streamlining information consumption.
- Optimized summarization accuracy and performance through iterative testing and model fine-tuning.

Data Science Projects

Cost and Profitability Analysis

Python, Pandas, NumPy, Matplotlib

Jan 2024 – Feb 2024

- Analyzed business cost structures and revenue streams to provide actionable financial insights.

- Leveraged Python libraries to manipulate data and visualize key performance indicators.

Dynamic Pricing Strategy

Python, Pandas, NumPy, Matplotlib

Dec 2023 – Jan 2024

- Developed real-time pricing models that adjust based on market trends and competitor pricing.
- Utilized data visualization to identify factors influencing revenue optimization.

ADDITIONAL INFORMATION

- **Networking & AI Enthusiast:** Continuously upgrading skills in advanced networking technologies and AI, with hands-on experience in both traditional and cutting-edge development practices.
- **Professional Growth:** Actively pursuing certifications and courses to stay ahead in cloud computing, DevOps, and emerging technologies like large language models.
- **Collaboration & Innovation:** Passionate about leveraging modern tech stacks to solve real-world problems and drive business transformation.