ERICK OTIENO — Software Engineer

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I am a software engineer responsible for designing, developing, deploying and maintaining large scale applications on the cloud or on premise. With a background in computer science and a keen eye for programming, I specializes in leveraging Python for back-end and React Framework for front-end, APIs, Relational and Non Relational Databases(no sql) and cloud computing to build and customize software applications following best practices like Github, Docker, Kubernetes, Jenkins, CI & CD to come up with applications that meet user requirements on a timely manner.

SKILLS AND ACCOMPLISHMENTS

- **TECHNICAL SKILLS**: Github | Docker | Kubernetes | JIRA | Jenkis | Power BI | Computer Science | AWS |

- **PYTHON:** Data Science| Data Visualization | Machine Learning and Deep Learning | Django | RESTFul Apis | Flask

- **JavaScript: ReactJS and Material Design and GraphQL** | Business Metrics & Dashboards |

- **SCRUM MASTER:** Lead daily stand-ups and scrum ceremonies, work closely with Product Owners to develop and maintain project backlogs, and remove problems and team impediments to ensure that the highest business value user stories are delivered to the customers.

- **DevOps: Microservices | Github | Docker | Kubernetes | Containerization | Cloud Computing**

- **DATABASES:** Relational Database using MySQL and SQLite | Non Relational Databases using Mongo DB Compass
- **MOBILE APPLICATIONS:** Android Kotlin | XML and JetPack Compose | APIs | SQLite | React Native
- **TESTING:** JUNIT | POSTMAN

WORK EXPERIENCE

LEAD TECHNICAL TRAINER | Modcom Institute, Westlands,

Nairobi 03/2022 – Present

1. Data Science, Machine Learning and Deep Learning using Python and Flask

- Advanced Python Programming Concepts
- Data Pre – Processing – Cleaning, Transfromation and Reduction
- Outlier and Anomalies Detection in Datasets
- Patient Prediction System PIMA Indians
- Data Visualization using Power BI and Tableau DesktSales Prediction system using Regression
- Basket Analysis using A priori Algorith
- Explanatory Data Analysis using Pandas and Matplotlib
- Web Scrapping using Python Beautiful Soup
- Natural Langauge Processing and Sentiment Analysis
- Hypothesis Testing
- Deep Learning
- Computer Vision using Convolutional Neural Network
- Pre – trained Models
- Deploying models using Flask and AWS

2. Web Application Development| SQL | Flask| APIs | ReactJS
   - Backend Development using Python Django REST Framework and Flask Restful Library
   - Front End Development Using React and GraphQL
   - API Development and Testing using Postman
   - Version Control using Github
   - Docker and Kubernetes for software containerization on the cloud
   - Continuous Integration and Continuous Testing using Jenkins
   - Terraform Deployment Automation on Premise or on the Cloud.
   - Software Security Best Practices
3. Android Application Development | Kotlin | XML | APIs | Android Studio
   - Mobile Application Design using Adobe XD and Figma
   - Android Front End Design using XML and JetPack Compose
   - Kotlin for Android Logical Programming
   - Maps and Permissions
   - Implicit and Explicit Intents in Android Application
   - SQLite, Room DB and Apis for Back-end
   - Mobile Application Publishing on Google Play
   - Mobile Development Best Practices using MVVM Architecture and Firebase
   - Dependency Injection using Dagger Hilt
4. Cyber Security Fundamentals | Kali Linux | Python | Pen Testing.

ATTACHE' | Kenya Revenue Authority, Nairobi| Technology Innovation and Artificial

Intelligence 09/2021 – 12/2021

Responsible for planning, developing, organizing, writing and editing operational, software, maintenance, test procedures and manuals.
Proofs of Concepts KRA Innovations in Artificial
Intelligence. Big Data Application – IBM Hadoop
Data Visualization – Tableau Desktop.

E D U C A T I O N

BSC IN COMPUTER SCIENCE | ST PAUL'S UNIVERSITY, Kenya
2017 – 2022
First Class Honors
Deans List of Honor Award – Department of Computer Science