BYRON ORWA

Software Specialist

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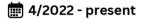- odhiambobyron39@gmail.com
- Kisumu, Kenya

EXPERIENCE

Data scientist

Kenya medical research institute

📅 4/2022 - present   📍 Kisumu

- Gather and integrate data from diverse sources including databases, spreadsheets, and APIs
- Conduct statistical analysis using tools like Matplotlib, Seaborn, and Microsoft Excel
- Ensure data integrity and accuracy during the collection and integration processes
- Establish and maintain data governance policies and procedures to uphold data quality, security, and privacy
- Implement data security measures to protect sensitive information
- Collaborate with cross-functional teams including IT professionals, data engineers, and analysts
- Provide guidance and training to non-technical team members on data-related concepts and tools

Software developer

Upwork

📅 5/2020 - present   📍 Remote

- Liais with clients to understand project requirements and translate them into technical specifications.
- Managed multiple projects simultaneously, ensuring timely delivery within budget constraints.
- Design, develop, and deploy web and mobile applications using a variety of programming languages and frameworks, including JavaScript, Python, Flutter, and React.
- Design and maintain relational and non-relational databases, including MySQL, PostgreSQL, and MongoDB.
- Conduct comprehensive testing, including unit testing, integration testing, and end-to-end testing.
- Utilize Git for version control, ensuring efficient collaboration and code management.
- Create and maintain detailed project documentation, including technical specifications, user manuals, and deployment guides.

SUMMARY

Highly skilled software developer with a robust background in data management, machine learning, and mobile application development.

SKILLS

Programming	Web development
Data management	Statistical analysis

Mobile app development

Presentation Skills	Communication
Project management	Leadership

LANGUAGE

English
Proficient   🔵🔵🔵🔵⚪

Swahili
Proficient   🔵🔵🔵🔵🔵

TRAINING / COURSES

Google digital skills for Africa

Good Clinical Practice

Humanities Responsible Conduct of Research

PROJECTS

Edugem AI

6/2022 - present   📍 Kisumu

This is an app delivering personalized learning experience to students.

EXPERIENCE

Machine learning engineer
Flapmax

📅 9/2021 - 3/2022   📍 Austin Texas

- Collaborate with medical experts to gather and preprocess medical imaging data such as MRI and CT scans
- Design and implement deep learning models using PyTorch for brain tumor detection and segmentation tasks
- Optimize model performance through experimentation with various network architectures and hyperparameters
- Evaluate models using metrics such as accuracy, sensitivity, and specificity
- Develop APIs for model inference in production environments using FastAPI
- Containerize application components using Docker for portability and scalability

EDUCATION

Bachelor of Business Information technology
South eastern kenya university

9/2016 - 8/2021   📍 Kitui

STRENGTH

🔷 Expertise in Mobile & Web Development

Gained through hands-on experience developing applications using modern frameworks such as React Native, Flutter and JavaScript.
Created highly functional and visually appealing applications that met client requirements and enhanced user engagement.

🔷 Proficiency in Data Management

Developed through formal education and practical experience in SQL, Python, and data validation processes.
Improved data accuracy and reliability, which contributed to better decision-making and project outcomes.

VOLUNTEERING

Data scientist
Kenya medical research institute

📅 4/2018 - 8/2018   📍 Kisumu

My volunteer experience as a Data Management Specialist at the Kenya Medical Research Institute (KEMRI) has equipped me with several key skills and insights that make me a strong candidate in data management, data quality assurance, problem solving, project management and data analysis

KEY ACHIEVEMENT

🔷 Led Comprehensive Study Dashboard Project

Successfully developed a dashboard for analyzing data from children enrolled in a study focusing on Shigella and its impact on linear growth. This project integrated various data sources and provided visualizations using Python and SQL, supporting critical research objectives.

🔷 Streamlined Data Management Systems

Implemented data validation and quality audit processes, which improved data accuracy and reliability. This contributed to more informed decision-making and enhanced project outcomes.

ADDITIONAL SKILLS

Python   Javascript   Django

Node js   Mongo Db   Postgresql

Restful api   Graphql   Html and css

Flutter   React   Figma   Git

Canva   Agile methodologies

PASSION

🔷 Machine learning

🔷 Data science

🔷 Mobile application development

MY TIME

- GAMING 10%
- CODING 30%
- READING NOVELS 20%
- LEARNING NEW TECHNOLOGIES 10%
- FAMILY 30%