

PAUL RUKWARO

Software Engineer

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SUMMARY

Seasoned and a self-motivated Software Engineer with experience in creating and executing innovative software solutions to enhance business productivity. Adept in all aspects of software development lifecycle and end-to-end project management, from concept through to development and delivery. Consistently recognized as a hands-on and competent leader, skilled at coordinating cross-functional teams in a fast-paced, deadline-drive environment to steer timely project completion within budgetary constraints.

EXPERIENCE

Software Engineer

Indra

08/2022 - Ongoing

Software Development in C, C++, Java and Oracle SQL for feature enhancements in existing electricity, water, and gas utilities management systems for more than 13 State-owned companies across the world. The systems include Commercial Management Systems (CMS), Incidents Management Systems (IMS), Enterprise Resources Planning (ERP), Entity Management Systems (EMS), and Distribution Management Systems (DMS).

- Planning, Analyzing, and Implementing enhancements and feature requests development tasks using software and web technologies including C, Java, Angular and JSP.
- Conducting data analysis and modification techniques using Oracle RDBMS tools and SQL incorporating scripts and procedures.
- Testing new, modified, and upgraded software code for efficiency and performance.
- Applying the Agile methodologies in software engineering for optimal performance of the team and the company.
- Participating in teamwork and collaboration during the entire software development lifecycle.
- Abiding with company code-base and general policies to ensure software documentation principles are maintained.
- Applying mathematics and statistics to problem-solving initiatives that involve solving business cases for our corporate clients.

Technical Project Coordinator

Gessic

2020 - 2022

- Managed multiple projects and developed strategies related to Data science and web/mobile development.
- Worked with developers to correct issues with current applications and resolved issues using JIRA, Trello, Git, Bitbucket.
- Maintained project documentation on shared repositories and managed project SharePoint site security access.
- Assisted in improving quality processes and also provided induction support for Quality trainings for new joiners.
- Implemented a change management policy that increase productivity and communication between data divisions.

Freelance Developer

Upwork

2016 - 2020

- Data science consulting and building complex machine learning and statistical models to explore insights and trends in the data.
- Conceptualized, designed, developed and maintained the websites based on clients needs and specifications.
- Programmed web solutions for clients using HTML, CSS, and JavaScript frameworks.
- Managed the client expectations and effectively communicating the project dependencies and critical path.
- Proactively managed the changes in project scope, identifying potential crises, and devise contingency plans.
- Established a strong foundation in react, angular, flutter, TensorFlow, Sklearn, neural networks' python by solving problems from project Euler and implementing solutions in each language

FIND MY WORK ONLINE

GitHub

https://github.com/pauxru/

EDUCATION

BSc. Control and Instrumentation

Jomo Kenyatta University of Agriculture and Technology

2015 - 2019

TECHNICAL SKILLS

Main stack: Python, C, C++, JavaScript, R, Java, HTML, CSS, REACT, NodeJs, Flask, Django, Angular

Database Management: SQL, MongoDB, NoSQL, Embedded SQL

Cloud Solutions: AWS, Azure, Google Cloud

CORE COMPETENCES

Software Development Lifecycle

Scrum & Agile Methodologies

Project Management

Web Application Design & Development

Technical Process Improvement

Mathematical Acumen

Data Management

Statistical Experinmentation

PROFESSIONAL CERTIFICATION

Financial Modelling & Valuation Analyst | Corporate Finance Institute, ALX | September 2022

Google Looker Masterclass: Looker & LookML A-Z 2022 | Udemy | May 2022

Project Planning: Putting It All Together | Coursera | Jan 2022

EXPERIENCE

Technical System Administrator

New KCC Kenya

📅 06/2019 - 12/2019

- Maintained and troubleshooted system for the dairy company's supply and distribution systems applications using logistical and factory data.
- Developed and maintained good working relationships with other technicians to ensure effective troubleshooting and repair of equipment and systems developed from data insights.
- Performed calibrations and scheduled preventive maintenance on utilities, analytical and other laboratory instruments.
- Operated and maintained the instrument and control test, calibration and repair areas and all equipment and tools assigned.

PROJECTS

Virtual Games Prediction

Tags: Machine Learning, data collection, data pipelines, APIs, EDA

🔗 <https://github.com/pauxru/virtual-games-project>

Created a data pipeline that gathers, cleans, prepares, analyses, models, and presents the findings using ML, the model is able to accurately predict 3 times out of 4.

Kenya's Car Analysis

Tags: Pandas, Selenium, matplotlib, plotly

🔗 <https://github.com/pauxru/Kenya-s-Cars-Project>

Analyzed scraped data from a local car selling website with more than 45,000 entries. Data was uploaded on Kaggle for communal use where it has developed great interest from some individuals and companies.

Automated Bidding Bot

Tags: selenium, Tkinter, pandas, collections, exceptions, multi-threading, multi-processing

🔗 <https://github.com/pauxru/PaulAutomated-Freelance-Bidding-Bot>

UI based desktop application that takes in several configurations to guide in the bidding process. The bot can autonomously scrape, filter, bid, accept, text, and notify when taking a freelancing project.

Loan Application Advisor

Tags: DecisionTreeClassifier, LogisticRegression, pandas, matplotlib

🔗 <https://github.com/pauxru/Loan-Application-Advisor>

This project solves the delicate process of loan application by predicting if a customer qualifies for a specified amount of loan. This model can act as a pre-screen process for the bank before human professional makes the final decision.

Credit Cards Fraud Detector

TensorFlow, Sklearn, imblearn, LogisticRegression, KNeighborsClassifier, DecisionTreeClassifier, RandomForestClassifier

🔗 <https://github.com/pauxru/Financial-Fraud-Detector-Credit-Cards->

Application of Machine learning techniques to detect fraudulent transaction for a credit card company before they happen based on transaction features. This saves the company cost of solving fraud cases and reputation.

Advanced EDA For Store Data

Tags: Plotly, matplotlib, numpy, pandas

🔗 <https://github.com/pauxru/Advanced-EDA-For-Store-data>

A detailed analysis of a retail store data to gather insights that can be used to streamline the operations and inventory activities of the retail store

LANGUAGES

English

Proficient ●●●●●

Kiswahili

Fluent ●●●●●

PROFESSIONAL CERTIFICATION

AWS Cloud Practitioner | AWS | December 2021

Project Initiation: Starting a Successful Project | Coursera | December 2021

Fundamental Data Analysis and Visualization Tools in Python | Udemy | November 2021

Foundations of Project Management | Coursera | October 2021

What is Data Science? | Coursera | October 2021

Foundations: Data, Data, Everywhere | October 2021

STRENGTHS



Excellent Troubleshooting

Well versed in analysing codes while engineering well researched, cost-effective and responsive solutions.



Process Optimization

Adept at evaluating and developing optimal operations procedures and development policies based on business needs and human resource stewardship.



Curiosity and Problem-solving

Leverages patience, determination, and persistence to troubleshoot issues and make accurate and informed decisions to solve complex problems.



Communication Acuity

Ability to perceive industry-specific jargon within the context of a client's or management's verbal discourse.



Team Player

Able to function in a multidisciplinary teams in fast-paced environments and can integrate multiple perspectives to action plans that result to success.

PERSONAL INTERESTS



Artificial Intelligence



Travelling



Reading Research Papers