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## TIMOTHY MADEGWA

Tel: 0724245620

Email: [timothymadegwa@gmail.com](mailto:timothymadegwa@gmail.com)

LinkedIn: <https://www.linkedin.com/in/timothymadegwa/>

Online Portfolio: <https://timdev.co.ke/>

### PERSONAL STATEMENT

Timothy is interested in working with companies with customer data to improve on their customer experience by harnessing the power of Data Analytics and Machine Learning. He pursued a Bachelor of Science in Mathematics and Computer Science and is currently pursuing his master's degree in Big Data Technologies, gaining knowledge in computer programming, statistical analysis, mathematical modelling, data visualizations, machine learning, big data, enabling him to analyze and get insights from data. He has created many web-based applications one of which is called S-BOB. The S-BOB application allows users to create accounts, make peer to peer payments to other registered users, save money on their account and get affordable loans through the application, hence uplifting the financial status of the users.

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### RELEVANT SKILLS

- Machine learning
- Python Programming
- Data science
- Enterprise Risk Management
- Information Security Management Systems (ISMS)
- Sci-Kit Learn (Ensemble methods, Linear Regression, Decision Trees)
- Django and Django Rest framework
- Pandas
- NumPy
- Matplotlib
- Big Data Technologies (Hadoop, PySpark, Hive)
- Statistical Data Analysis
- Power BI

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### WORK EXPERIENCE

**JANUARY 2020 – CURRENT / ML AND SOFTWARE ENGINEER / AQILA SOFTWARE LIMITED**

#### ACCOMPLISHMENTS

- Developed the S-BOB application that allows users to create accounts, make peer-to-peer payments, save and take loans via the application.
- Developed Aqila ERP system that allows users to manage inventory, make sales, view receipts, view profits and sales trends and statistics.
- Developed Kopapap, a machine learning web-based application the gives instant credit scoring
- Formed a partnership with Finastra (3<sup>rd</sup> largest financial services company in the world)

- Developed the Business Plan for Aqila focusing leveraging machine learning in fintech, medicine and education.
- Conducted hour of code sessions to less fortunate children in partnership with Finastra.
- Developed a Medical Image Analysis tool (deep learning) used to help in the diagnosis of Tuberculosis.
- Contributed in the development of the company's website.

#### **JANUARY 2021 – CURRENT / FREELANCE ML AND SOFTWARE ENGINEER CONSULTANT**

##### ACCOMPLISHMENTS

- Developed the backend for a price finder and comparison app for toys where users are able to see high end value, low end value and retail price
- Developed an ecommerce platform that is used to sell car spare parts, tyres and accessories.
- Conducted data analysis and created a machine learning model to predict air quality in Dakar Senegal
- Formed part of a team that developed national competency-based curricula for TVET in Data Management and Analytics, Computer Science and Artificial Intelligence (all level 6)
- Conducted code audits on existing code bases and made recommendations on how to improve based on my findings

#### **APRIL 2018 – DECEMBER 2019 / CONSULTANT / PEOPLE CENTRIC MANAGEMENT COMPANY LIMITED**

##### ACCOMPLISHMENTS

- Developed content for the statistics classes.
- Came up with practical work to apply statistics learnt.
- Developed python content aimed at demonstrating the use of python in Data Analysis

#### **SEPTEMBER 2018 – FEBRUARY 2019 / RISK ANALYST / CENTUM BUSINESS SOLUTIONS**

##### ACCOMPLISHMENTS

- Created a Scoring system to evaluate the level of compliance to the procurement procedures of Centum PLC. This helped to quantify the level of risk.
- Contributed to the development of the Risk tracking system by emphasizing the need to breakdown the data collection process. This helped to break down the risk when analysis is done.
- Conducted independent risk reviews of existing and new products.
- Prepared the quarterly compliance report highlighting the level of compliance of Centum and its subsidiaries.
- Prepared the quarterly Board risk report for Nabo Capital (Centum Subsidiary).
- Prepared the weekly bank concentration report which helped in monitoring the bank concentration levels of Nabo Capital (Centum subsidiary).

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## EDUCATIONAL BACKGROUND

### **May 2021 – to date / University of East London**

Master of Science in Big Data Technologies

### **September 2014-November 2017 / Jomo Kenyatta University of Agriculture and Technology**

Bachelor of Science in Mathematics and Computer Science – **Second Class Upper**

### **January 2012-December 2013 / London College of St. Lawrence**

Uganda Advanced Certificate of Education (U.A.C.E) – **18 points**

### **January 2008-December 2011 / London College of St. Lawrence**

Uganda Certificate of Education (U.C.E) - **11 Aggregates**

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## ADDITIONAL TRAINING AND CERTIFICATIONS

### **April 2019 – December 2019/ Machine Learning Resident / IcodeAI**

- Underwent training in Python, Machine Learning, Deep Learning and Data Science
- Conducted training sessions on Machine Learning, Deep Learning and Data Science

### **April 2019 / DataCamp**

- Data Scientist with Python (26 courses)
- Fraud Detection using Python

### **2015 / Peer Leaders / Jhpiego (An affiliate of John Hopkins University)**

- Peer Leaders, Reproductive health & Life Planning

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## INTERESTS

**Chess:** This helps Timothy to plan ahead and analyze different situations and take the best alternative.

**Football:** This enables Timothy to relax his mind and be in good physical condition.

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## **REFEREES**

Mr Anthony Mwangi,

CTO/ Machine Learning Engineer

Aqila Software Limited

TEL: +254707741793

Mr. John Gichuru

Trainer (TVET-CDACC)

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TEL: 0722814091