

# FRANK ACQUAYE

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<http://acquayefrank.github.io/>

## Why Me

Seeking to build accountable, reliable, fair and intelligent algorithms that will run critical systems thereby augmenting human limitations and improving the standard of living for the masses.

## Research Interests

- Applications of Machine Learning
- Machine Reasoning

## Skills

- Python
- Golang
- System/Software Engineering
- Machine Learning

## Work Experience

### Research Assistant

Laboratory on AI for Computational Biology

- Machine Reasoning Research

April 2021 – Till Date

Moscow - Russia

### Research Assistant

Vision Modelling Laboratory HSE

- Aid Psychology and Computational Neuroscience students with their programming projects

Sep 2020 – Dec 2020

Moscow - Russia

### Freelance Data Analyst

Scratchpay

- Built and managed data pipelines to aid in data ingestion and data warehousing using Hevo and BigQuery, this improved data availability by over 50%
- Built analytics dashboards to aid Risk Officers in decision making.
- Worked on ad hoc analysis to aid Risk Officers have better understanding of distribution of borrowers

Jul 2019 - Jun 2020

Moscow - Russia

- Worked on ad hoc analysis to aid Risk Officers have better sense of distribution of possible financial gamers
- Worked on ad hoc analysis to aid Risk Officers track possible financial gamers

## Backend Engineer

Jul 2017 - Aug 2019

MPharma Data Inc

Accra - Ghana

- Built knowledge base engine that classifies dispensations as accurate, inaccurate or suspicious. This helped to sanitise internal business data
- Built web crawler which retrieves ATC-Codes of drugs stored in formulary.
- Performed analysis on Internal Business Data for various stakeholders.
- Built payment system which has processed over 19,000 transactions
- Built invoicing system that aids mPharma to bill clients

## Software Engineer

Apr 2015 - Dec 2016

Kudobuzz

Accra - Ghana

- Developed sentiment analysis engine using scikit-learn, to aid clients of Kudobuzz detect sentiment behind reviews
- Developed business dashboard using data mining techniques (mining business data) to aid C.E.O and product lead make strategic business decisions.
- Built third party integrations for Queueapp. These integrations allowed Shopify, Tictail, Bigcommerce, Storenvy and Woocommerce users to interact with Queueapp
- Built prototype products search engine called Storeuno

## Education

### Master of Science: Data Science (Research Focused)

May 2021

National Research University Higher School of Economics

Moscow - Russia

- Majored in Intelligent Systems and Structural Analysis
- 8.06 GPA on 10-point Scale
- Built Covid-19 Forecaster — A machine learning model that forecasts confirmed covid cases and fatalities around the world based on day and region
- Built BaiKal — A machine reasoning system that uses GRU's to answer questions about a given context (Machine Reading Comprehension)
- Thesis Topic – Compositionality of Distributed Data Representation

### No Degree: Software Entrepreneurship

Meltwater Entrepreneurial School of Technology

East Legon - Ghana

- Think of the YCombinator of Africa and I got in. I was 1 of 26 people selected out of 1000 applicants.

**Bachelor of Science: Computer Science**

May 2013

University of Cape Coast

Cape Coast - Ghana

3.0 GPA on 4.0 Scale