

FRANCIS JINGO

francisjingo3@gmail.com

(+250) 789 484 894

LinkedIn ◇ Portfolio ◇ Github

EDUCATION

Carnegie Mellon University, Africa

Master of Science in Information Technology

Department of Information and Computer Technology.

Aug 2020 - May 2022

CGPA of 3.46

Harvard University Online, USA

Data Science Professional with R

Department of Statistics

Jul 2020 - Jun 2021

Certification

Kyambogo University, Uganda

Bachelor of Science in Information Technology.

Faculty of Science

Aug 2013 - Dec 2016

CGPA of 4.00

CARRIER BIO

Software developer/data scientist with Harvard and Carnegie Mellon University Africa professional qualifications. Python and R experience in logical information examination, explanatory data analysis, visualization, model creation, and prediction. Expert in data structures and algorithm implementation with C++, and software development with PHP and C#. Designing data-driven products, business intelligence, research to lessen calculation intricacy and algorithm complexity are all areas of interest. For financial institutions, Francis has designed, integrated, and launched optimized digital products. And has likewise advanced competitive advantage and pitched efficacy, scalability, productivity, and versatility of such products to clients.

PROJECTS

- Client credibility project. The project was a data analysis project aimed at drawing insights on predicting whether clients purchasing products on credit will make first installments within a 60-day due date. The model achieved a 66% forecast precision.
- Data Structures in C++. Raw implementation of Binary search, Redblack, Huffman, Trie tree structures without pre-built libraries. Implementation of bit manipulation, graphs, depth-first search algorithms and recursion, pointers, memory reference and big O computation concepts. Algorithm optimization to reduce execution time and memory use.
- Cash Deposit Machine Project. Constructed PHP and bash scripts to automatically reconcile escrow accounts and send alerts in cases of anomalies and down times. Set up real time email alerts for CDMs usage statistics and insights regarding impact on bank deposit queues.

TECHNICAL STRENGTHS

Explanatory Data Analysis and Visualization.

Model design, prediction and performance monitoring.

Data Structures and Algorithm design.

SQL query design and Database orientation.

Desktop UI design

Tools & Softwares

Python, R

Python, R

C++

Oracle, MS SQL

C# and Java.

GitHub, Latex, MS Office.

WORK EXPERIENCE

Graduate Teaching Assistant

Aug 2021 - Present

Carnegie Mellon University Africa

- Lead in all version designs, developments, implementations, and deployments of Gradescope, an automated grading tool for assignments and exams.
- Organized recitations, office hours, code debugging sessions and algorithm discussions to accord students a smooth transition in Data Structures and Algorithms. Overseeing and supervising algorithm discussions among students.

Data Science Intern

May 2021 - Aug 2021

Engie Energy Access

- Created data analysis charts and visualizations based on findings from data analysis performed on Mobisol client data.
- Pioneered and led data validation and analysis process, predictive modeling of the Miss First Payment project using regression and boosting algorithms, feature selection and hyper-parameter.
- Discovered insights and lessened resources needed to follow up with clients by 33%. Created 2+ data visualizations and proposals a month for data huddle and analyst circle presentations.

Electronic Banking Advisor

Mar 2019 - Aug 2020

Citi Bank

- Implemented VBA scripts in excel to format payment details and enable bulk payment upload.
- Delivered onsite installation and java troubleshooting of Citi-direct upgrades to clients. Enhanced testing and release process of new digital solutions.
- Spearheaded and conducted recommendation and consultation surveys with clients to help improve the Citi-direct platform. Managing implementation of more than 3 projects.

Software Development Officer

Jul 2017 - Feb 2019

Stanbic Bank Uganda

- Enhanced extraction and set up scheduled email delivery of statistical data about utilization of bank's products. Set up real-time status monitoring and alerting tools for digital channels showing real-time channel status.
- Proposed, built, and set up an automated reconciliation tool for cash deposit machines and lowered manual workload by 80%.
- Collaborated, coordinated and oversaw upgrading, testing, and deployment of bank's digital channel systems. Platforms used included Linux, Java, and Oracle SQL.

HONORS AND AWARDS

- 83% (20,000\$) tuition grant for the Masters program at Carnegie Mellon Africa.
- 100% government sponsorship for undergraduate education with monthly stipend.

EXTRA CURRICULAR

Aside from technology, hobbies include soccer, swimming, hiking, community service, and hanging out with friends. Part of 2012 divisional championship-winning high school soccer team, participated in school inter house drama competitions. Member of data science, toastmasters and fellowship clubs at Carnegie Mellon University Africa. 22 best 2010 national maths contest student.