

FRANCIS JINGO

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LinkedIn ♦ Portfolio ♦ Github

EDUCATION

Carnegie Mellon University, Africa

Msc. Information Technology

Department of Information and Computer Technology

Aug 2020 - May 2022

CGPA: 3.46

Harvard University Online, USA

Data Science Professional with R

Department of Statistics

Jul 2020 – Jun 2021

Certification

Kyambogo University, Uganda

Bsc. Information Technology

Faculty of Science

Aug 2013 - Dec 2016

CGPA: 4.00

CARRIER BIO

Software developer/data scientist with professional certifications from Harvard and Carnegie Mellon University Africa. Experience in explanatory data analysis, visualization, model design, and prediction with Python and R. Expert in data structures implementation with C++ and software development with PHP, C#. Interested in designing data-driven products, artificial intelligence, and research to reduce algorithm complexity.

PROJECTS

- Client credibility project. The project was a data analysis project established to draw insights on predicting whether clients taking products on credit will make the first installment payment before the due date. I went ahead and did prediction and I can say that the model had a 66% accuracy.
- Data Structures in C++. Implementation of tree structures like binary search, redblack, huffman, trie without need for pre-built libraries. Implementation of algorithms like bit manipulation, graphs, depth first search. Understanding of concepts like recursion, pointers, memory referencing and computation of big O efficiency. Optimization of algorithms to reduce run time and memory usage.
- Cash Deposit Machine Project. Wrote PHP and bash scripts to automatically reconcile the escrow accounts and send alerts in cases of anomalies and down times. Set up automated and email alerts for CDMs usage statistics and insights mainly regarding their impact on bank deposit queues.
- More can be found in my portfolio here.

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 - Dec 2021

Carnegie Mellon University Africa

- Enabled students have a smooth transition in Data Structures and Algorithms course by organizing recitations, office hours, code debugging sessions, and algorithm discussions.
- Setting up Gradescope, an automated grading tool for assignments and exams.

Data Science Intern

May 2021 – Aug 2021

Engie Energy Access

- Created visualizations based on findings from data analysis performed on Mobisol client data.
- Pioneered predictive modeling of the Miss First Payment project using random forests, logistic regression, and boosting algorithms like XG boost, cat boost, performing feature selection, and hyper-parameter tuning in the process.
- Lead the data validation and analysis process of client loans and credit scoring assessment.

Electronic Banking Advisor

Mar 2019 – Aug 2020

Citi Bank

- Supported onsite installation and java troubleshooting of Citi-direct upgrades.
- Enhanced testing and release process of new digital solutions.
- Learnt managerial and supervisory aspects of banking.

Software Development Officer

Jul 2017 – Feb 2019

Stanbic Bank Uganda

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

Data Processing Assistant

Nov 2014 – Jan 2016

Uganda Bureau of Statistics

- Performed infield data mining and processing functionalities including data editing and entry, pre-scan editing, scanned images quality assurance, validation of entered or scanned data.

HONORS AND AWARDS

- Received 83% tuition grant for the Masters program at Carnegie Mellon Africa from ICT Dean in June 2020. A total of US 20,000\$.
- Represented Uganda in the Cash Deposit Machines seminar in South Africa organized by Standard Bank in May 2018.
- Received government sponsorship for undergraduate education. 100% tuition plus a monthly stipend.