

Jackline Jebet

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👤 PROFILE

Results-oriented professional and a financial engineering master's student building a career at the intersection of finance (capital markets), data, and software. Currently working as a software engineer at Siscom Africa, contributing to the development of scalable digital platforms and data-driven systems.

Experienced in applying machine learning, quantitative methods, and big data technologies to analyze complex datasets, support decision-making, and solve real financial problems such as credit default modeling, equity return prediction, and asset clustering. Proven ability to build full-stack applications and develop data-driven solutions using React, Node.js, Python, Spark, Hadoop, ML, and SQL.

Passionate about leveraging technology, data, research, and analysis to solve real-world business and financial challenges.

🎓 EDUCATION

MSc in Financial Engineering , WorldQuant University	2025 – present
• Focus: Financial Markets, Financial Data, Machine Learning, Deep Learning, Quantitative Analysis, Stochastic Modeling, Portfolio & Risk Management	
Software Engineering , Moringa School	2022 – 2023
• Focus: Software Development (Fullstack, Frontend, Backend) & Design (CSS Styling, UI Figma Design)	
Cloud Computing Practitioner(AWS) , Azubi Africa	2023 – 2024
• Focus: AWS services: CodeDeploy, CloudFormation, Lambda, Amazon S3, EBS, EFS, IaaS, PaaS, and SaaS models.	
Business Analysis , Hibreed Station Inc.,Canada	2021 – 2022
• Focus: Business Analysis, Requirements Gathering, Stakeholder Engagement, Agile methodologies, Scrum practices, and data-driven insights	
BSc in Agribusiness Management , South Eastern Kenya University	2017 – 2021
• Thesis: Financial Management Practices in Microfinance Institutions in Kenya	Kitui, Kenya

💼 PROFESSIONAL EXPERIENCE

Software Engineer (Part-Time) , Siscom Africa ☑	2026
• Contribute to the development and maintenance of digital platforms and software solutions. • Work across frontend and backend components to implement and improve application features. • Troubleshoot software issues, debug applications, and support system performance and reliability.	
Data Analyst Web Developer & Design , Freelance	2022 – Present
• Conducted big data analysis and created visualizations to communicate insights to support better decision-making. • Built ML pipelines and distributed data workflows using Python, Spark, Hadoop, and machine learning frameworks on large-scale datasets • Designed and developed responsive web applications using JavaScript, React, Node.js, Ruby on Rails, HTML, and CSS. • Designed user interfaces and prototypes using Figma, Material UI, and Bootstrap for platforms such as Actserv and Afyalytics.	
Credit Officer Intern , Uasin Gishu County government	2019 – 2019
• Assessed borrower creditworthiness, income, existing obligations, and repayment capacity. • Analyzed financial information and prepared credit reports and recommendations supporting 20+ loan applications. • Maintained accurate financial records and supported loan administration processes. • Collaborated with stakeholders to collect, analyze, and interpret financial information.	

SKILLS

Quantitative & ML

Data cleaning, Exploratory analysis, Regression (LASSO), Classification (Trees, LDA, XGBoost), Clustering (k-Means), PCA, MLP/LSTM/CNN, Time-series validation.

Data Analysis

Python (Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, Statsmodels), SQL, Excel, Power BI.

Big Data

Hadoop/Hdfs, Hive, Apache Spark, Pyspark

Software & Tools

React.js, Node.js, HTML, REST APIs, PostgreSQL, MongoDB, CSS, Git, GitHub, Vercel, Figma

PROJECTS

Credit Risk Prediction - ML Classification Pipeline

- Built and compared 5 classification models (Logistic Regression, Decision Tree, Random Forest, XGBoost, Neural Network) on 2.26M real loan records
- XGBoost achieved best AUC of 0.744; interest rate identified as dominant predictor at 56.4% feature importance; a pattern consistent with Kenya's own 2024–2026 NPL trend as CBK rates moved from 13% to 8.75%

Multi-Asset Return Analysis and Forecasting, WorldQuant University

- Analysed correlation and covariance structure across five asset classes, 2005–2022; found gold the most useful diversifier and the equity–bond relationship breaking down in 2022.
- Compared feedforward, LSTM and CNN forecasting models; none beat a simple benchmark out of sample, indicating short-horizon returns are not predictable from price history alone.

M-Pesa STK Push Integration , JavaScript, Node.js, REST APIs, M-Pesa API

- Integrated M-Pesa STK Push functionality, implemented API communication, and handled payment requests.
- Worked with backend services to process and manage transaction responses.

Moovers Web Application , JavaScript, React, Ruby on Rails, Bootstrap, Figma, Material UI

- Implemented frontend components using React and integrated them with backend functionality.

Scorptech Enterprise Website (Versel) , Javascript, Html, Css, Vercel

- Implemented frontend functionality and responsive layouts and deployed using Vercel.

Afyalytics Health Platform (Figma) , Figma | UI/UX Design

- Created wireframes, high-fidelity mockups, and interactive prototypes.

LANGUAGES

- English
- Kiswahili

CERTIFICATIONS

- Foundations of Financial Engineering 
- Introduction to Python Programming for Data Science 
- Software Engineering 
- Business Analysis 
- Software Testing Certificate 
- Amazon Web Services(AWS) 
- Project Management Foundations 

REFERENCES

Available upon request.