

Samuel Ciira Kibebe

Software engineer with over 8 years of experience working on commercial applications.

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WORK EXPERIENCE

Full-stack Software Engineer, LendXS - March 2022 - Present - Hybrid

- I am a full-stack engineer on an Agile software development team responsible for defining the scale and scope of software projects.
- I lead the technical team in defining and performing technical dipstick analysis with external parties during system integration (Evaluating and reviewing System Architecture, Defining collaboration tools and processes, Evaluating and determining data sharing formats, data mapping, and data structures during information exchange, Outlining our deployment stack and procedures and processes that our system has put in place to achieve Confidentiality, Integrity, and Availability of data)
- Key Contributions;
 1. Credit score module.
 - a. Building a credit score system to support rural financial institutions and SMEs to lower their lending risks when providing financial access to small-scale farmers.
 - b. Design and implement RESTful microservices that act on captured farmer data and output a credit score. Design and implement UI interfaces to display the data and score output to financial institution users who use it in the credit committees for loan application decisions.

- c. This digital loan application and appraisal system has improved the process efficiency, increasing staff productivity measured in the number of processed applications in a month. As a result of the system, the officers have managed to process 30% more loan applications in a month. Officers applying credit scores to make loan decisions have reduced Portfolio at Risk (PAR) by 5%.
- d. Developed a climate-integrated credit scoring model that incorporates scientific hazard data and client vulnerability/exposure insights to assess agricultural resilience. This innovation enables lenders to more effectively assess farmers' ability to adapt to climate risks, thereby improving loan repayment likelihood by up to **40%**.

2. Disbursement module.

- a. I led the team to develop a pay module that disburses money digitally to farmers through their mobile wallets.
- b. I integrated our system with a CBS system that records approved and disbursed loans. I integrated with a payment gateway that disburses money to farmers for active loans in the CBS. The integration with the payment gateway also handles sending money to farmers from the sales of the produce to financial institutions.
- c. Digital payments have improved accountability in the payment process, safe money transfer, and improved the efficiency of the whole process. Farmers can also receive money instantly after they deliver their produce to the stations. The impact of this on the financial institution is that they can handle more payments, increasing their client base by 10% each month.

- I lead the Sprint Retrospective, where we review our sprint and try to draw lessons to improve our team.
- Code review.

Software Developer, The Silverlogic - Jan 2020 - Nov 2021 - Remote

- Helping product owners refine user stories and gauge the difficulty in implementing the features.
- In a team that implemented the front-end (React) and back-end (Django and DRF) of a treatment management and scheduling web application that schedules patient appointments for premier laser skin treatment and consultations.
- Identify potential bugs affecting clients and preemptively create solutions for them. Diagnose bugs reported in Sentry and create a fix.
- Implemented a feature using Django Inheritance Manager to help get proper subtypes with minimal queries.
- Code Review.
- Participated in Sprint Retrospective where we used to go over our sprint and try and draw lessons to improve our team.

Computer Networks Operation, 360-Onnet - Jan 2019 - Sep 2019 - Onsite

- Advanced tactical rapid response to cyberattacks.
- Penetration testing of networks to determine their vulnerability.
- Carrying out Network scans and information gathering on various systems and user logs.
- Analysis of information gathered, which includes reverse engineering of malicious executables.

Software Developer, Ord-Group - Jan 2016 - Nov 2018 - Hybrid

- Server administration, configuration, and management of ORD group servers at Digital Ocean, which included app deployment, configuration management, and orchestration with Ansible.
- Horizontal scaling of Ubuntu servers on Digital Ocean using Nginx as an HTTP load balancer to improve fault tolerance and performance
- Monitoring, upgrading, and developing the ORD Group Web applications.
- IT consultation and support.

Software Developer, Fintech-Group - May 2014 - Oct 2015 - Onsite

- Deputized the tech lead to develop a Remote Deposit Capture – a cheque-clearing module – for Citibank Nigeria.
- Implemented a 3-tier clustered server architecture using WCF (Windows Communication Foundation) services on the Remote Deposit Capture System to help decouple the system.
- Documented the technical manual for the Remote Deposit Capture.

EDUCATION

2014 B.Sc. in Software Engineering (Second class Upper division), Kenyatta University

- Did a project to help customers shop online.

2012 Web Design Institute of Advanced Technology

TECHNICAL SKILLS

JavaScript, React, TypeScript, TanStack, Python, Django, Docker, GCP, JSS, Webpack, Git, Spring Boot, tailwindcss

LANGUAGES

English, Swahili