Names : John Kiragu

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Summary

Polyglot backend software engineer in Python, Ruby, Java, and Haskell, devops on AWS(ecs, k8s, elasticbeanstalk, dynamo, Redis, rds, lambda). I pride myself to be "great" at what I do, and I love nothing more than a good challenge

* **Interests: Strongly typed functional languages, and Distributed Systems**

MARCH 2017 - PRESENT

Jumo World Limited, Nairobi – Software Engineer 3

Technologies: *Spring Boot(java and kotlin), Django , Rails, Ansible, Aws, Docker, Kubernetes*

- Migration of the JUMO disbursements and collections environment from traditional ec2 instances fronted by an haproxy load balancer to an autoscaling AWS eb docker environment powered by ecs setting up the business for 10x growth
- Migration of configuration variables from code in two of our Django codebases into environment improving the developer experience by a bigger magnitude and providing a platform for building tools to spin up environments dynamically
- Migration of our front end facing USSD application session management from a traditional RDBMS(Postgres) to Redis improving performance by over 70% and reducing outages due to Postgres rds instances failing by up to 99%
- Building an open public-facing API to expose the Jumo payment APIs to the outside world improving the possibilities for how the Jumo loan platform can be accessed from the outside world
- Building a microservice to dynamically schedule transactions (collections) increasing infinitely the number of collection strategies we could implement and improve how fine-grained we want to collect payments from customers customized up to an individual customer level
- Work on the microservice led to the development of an open-source distributed time-based queue code-named Milau (https://github.com/kigsmtua/milau)

JANUARY 2015 - MARCH 2017

Cellulant Limited, Nairobi– *Software Engineer*

Technologies: *Spring Mvc(java), Laravel Yii, Linux, Jenkins, Mysql*
- Introduced a debugging toolbar to profile web applications improving performance by up to 70%
- Building the transaction summary and profiling backend for the mula payment app the current number one bill payment platform in the Kenyan market
- Led query optimization efforts for the backend API powered by MySQL improving performance by up to 30%
- Set up Jenkins for use as a continuous integration tool for shipping work to the local testing environment
- Led the integration of the bulk SMS system with the Cellulant payment enabling the two to work seamlessly with each other for our banking clients improving the efficiency and usability of both platforms

AUGUST 2013- JANUARY 2015

Jambo pay Express Limited, Nairobi– *Freelance Software Engineer*

Technologies: *Spring Mvc(java), codeignitor, Android*

- Led the revamping of the jambopay wallet user interface platform with the UX team
- Built a custom in house data collection tool that enabled the field agents to collect data from the field seamlessly on their mobile phones
- Led the building of the backend for the Jambopay web application
- Led the migration to vagrant for development environments
- Managed MySQL cluster for the jambopay wallet platform

AUGUST 2012 - JANUARY 2013

JapakGis Limited, Nairobi– *Software Engineering Internship*

Technologies: *Codeignitor, Android, Java, Javascript*

- Learned how to integrate google maps and build services on top of google maps
- Build a data collection app on top of google maps for the PCEA churches of Kenya
- Learned team collaboration and how to develop software as part of a team
- Led efforts to move the organization to git from svn leading to better development practices for use in the development team

Education

JANUARY 2012 - AUGUST 2015

Jomo Kenyatta University Of Agriculture and Technology – *Bsc Mathematics and computer science*

- Algorithms and Data Structures
- Number theory
- Object-oriented Programming
- Distributed Systems
- Pure mathematics
- Databases and distributed Computing
- Theoretical Computer Science