Komu Wairagu

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Professional Experience:

Tyk, *London, UK*. *https://tyk.io*

Senior Software developer. *July 2021 - Present.*

- Started a code improvement initiative which increased the project's test code coverage by 40%.
- Led the team in reducing the cost of operations by migrating databases that are used by customers on the free tier, from a costly SaaS to our inhouse kubernetes cluster.
- Wrote an RFC(and led its implementation) on adopting opentelemetry to enable easier debugging and reduce the time taken to resolve customer issues.
- Audited the project's code for concurrency safety, triaged the issues found, and was involved in fixing them until the project was 100% concurrency safe. I finally added tests to guard against any future regressions.

JUMO Kenya ltd, *Nairobi, Kenya*. *https://www.jumo.world*

Senior Software developer. *May 2018 - July 2021.*

- Reduced cloud costs of our service by 20%. This was done by analysing pod utilisation on kubernetes and then right-sizing the pods to match the expected usage.
- Improved the developer onboarding documentation thus reducing the time taken by new developers to become productive.
- Migrated all alerts to infrastructure as code. This made them more maintainable and also auditable.
- Involved in the recruitment and training of other junior/senior developers.
- Reduced the time taken while responding to oncall incidents. This was done by shipping a feature enabling association of metric tags with their corresponding logs.
- Reduced the company's financial risk by creating a common Money library. This library encapsulates the common money related operations(e.g. currency conversion) and provides a safe API devoid of the various money related bugs.

JUMO Kenya ltd, *Nairobi, Kenya.* https://www.jumo.world

Software developer. *April 2015 - May 2018.*

- Improved the throughput of a USSD application that is used in 8 different countries from 10 requests/sec to 280 requests/sec.
- Proposed & introduced static analysis tools to our build pipelines, this resulted in a 15% reduction of bugs shipped to production.
- Reduced the time to integrate with a new partner from 3months to 2months by creating a configurable partner mock service.
- Lead the integration of our SMS software system with the SMS gateways of 7 different mobile network operators around the world.
- Re-architected infrastructure & migrated from AWS ec2 to AWS elasticbeanstalk. This increased service uptime from 90% to 99% while also decreasing deploy durations.

WezaTele ltd, *Nairobi, Kenya.*

Senior Software developer. *September 2013 - April 2015.*

- Improved the database query time for a client's eCommerce software application by 24%.
- Implemented an SMS ordering solution for a large FMCG distributor that cut out inefficiencies in their distribution channels.
- Optimized in-house unit tests thereby decreasing their run time by 16%.
- Rolled out a business intelligence (BI) and analytics solution for various clients, enabling them to make sense of the raw data generated by their various business processes.
- Configuring and setting up servers and virtual machines while also installing all the underlying software and tools needed to implement 'cloud' applications.
- Designed and implemented a web scraper that scraped data from an SMS reporting engine and used Splunk(a log analysis service) to analyze and troubleshoot the data thus generated.

Open source software developer, *Nairobi, Kenya.*

September 2013 - to date.

- Created and continues to maintain meli, which is a container orchestration tool that is significantly faster than the industry standard(docker-compose).
- Created and maintains sewer, which is a tool that makes it easy to create and manage SSL certificates and their associated keys.
- Created and maintains yuyuid, which is a UUID library for the [Go](Go) programming language.
- Created and maintains [naz](naz), which is an async SMPP client..
- Contributor to various other open source repositories.

Education:

Linux Foundation

Certified Kubernetes Administrator, Ongoing.

Dartmouth College, New Hampshire, *U.S.A*

Business and Entrepreneurship, *July 2014.*

University of Nairobi, *Nairobi, Kenya.*

Bsc Electrical & electronic engineering. *Second class honours, August 2012.*

Joytown Secondary School, *Thika, Kenya.*

Kenya Certificate of Secondary Education (K.C.S.E). *A-(minus),* December 2005.