

CURRICULUM VITAE

DANIEL MWENDWA MUNYOKI

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DanielMwendwa.github.io | Python, Javascript, Dart, Shell.

SOFTWARE ENGINEER

Results-driven software engineer, with over 3 years of experience in supporting the technology and data team at Africa's Voices in building and maintaining infrastructure for listening to citizens. I have also offered cutting-edge engineering solutions in various domains for efficient service delivery, and cost reductions on time.

I am interested in programming; developing, testing and debugging code; designing interfaces; data analysis and visualisation; and administering systems and networks.

PROFESSIONAL EXPERIENCE:

SOFTWARE ENGINEER

AFRICA'S VOICES FOUNDATION | MAY 2022-Present

- I develop and support data pipelines (initial implementation, SMS platform and Google Forms configuration, daily pipeline execution, maintenance, uploading of coding schemes to aid in data labelling, SMS traffic monitoring; code reviews/standing in for primaries on leave etc.)
- I build, run and maintain new data processing pipelines and infrastructure using existing core modules.
- I provide support in core infrastructural investments in between projects.
- I am in charge of the creation, co-designing, maintenance and testing of SMS flow on the Textit platform.
- I use the infrastructure to design, develop, test and deploy software architecture for new products.
- I collaborate with Data and Technology staff to build and maintain core AVF infrastructure and systems.
- I support traditional software engineering skills (code review, debugging, testing, etc.)
- I have collaborated with other engineers to build a centralised Firebase database that provides a canonical view of our contacts, engagements, and their respective demographics.

This helped reduce operational costs from 3rd-party data management services and improved how we store and interact with our vast citizen-generated data from various countries, donors and contexts.

- I coordinate with mobile network operators and SMS aggregators in Kenya and Somalia to integrate and monitor SMS shortcodes to aid our audience engagement.
- I manage the organisation's Google workspace.

JUNIOR OPERATIONS ENGINEER

AFRICA'S VOICES FOUNDATION | OCT 2019-APRIL 2022

- Developed an analytics dashboard for monitoring, logging and alerting data pipeline metrics.
- Developed, managed and maintained Operations Dashboard (Python, D3.js and Firebase).
It helped the team mainly monitor SMS traffic across different mobile network operators, and message coding progress.
- I also gathered user feedback both within and outside the organisation on ways of improving the dashboard further. This became the go-to tool within the organisation for monitoring critical project processes and tasks.
- Provided technical support and maintenance to enable the smooth running of operations in the organisation including assisting colleagues in resolving technical issues; actively updated, maintained and monitored AVF computers, 3rd party software, networks and peripherals; maintaining a working log of technical support requests to enable us to proactively mitigate them in the future.
- Learnt AVF's pipeline codebase and created a test pipeline.
- Collaborated with other software engineers and researchers to co-pilot pipeline operations.
- Monitored deployments, tracked outages, and provided root cause analysis and postmortem solutions for incident responses.
- Documented existing operational processes and developed new ones as the infrastructure grew.
- Collaborated with project leads to establish technical and operational plans for deployments.

EDUCATION

Catholic University of Eastern Africa (CUEA)

Bachelor of Science in Computer Science | 2021

Dagoretti High School

Kenya Certificate of Secondary Education | 2016