

CURRICULUM VITAE

DANIEL MWENDWA MUNYOKI

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

SOFTWARE ENGINEER

Results-driven software engineer professional, 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 and offering cutting-edge engineering solutions in various domains for efficient service delivery, and cost reductions among other benefits 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

- Development and support of 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.)
- Building, running and maintaining new data processing pipelines and infrastructure using existing core modules.
- Providing support in core infrastructural investments in between projects.
- In charge of creation, co-designing, maintenance and testing Textit flow of core modules
- Using the infrastructure to design, develop, test and deploy software architecture for new products.
- Collaborating with Data and Technology staff to build and maintain core AVF infrastructure and systems.
- Supporting standard software engineering skills (code review, debugging, testing, etc.)
- Collaborated with other engineers to build a centralised firebase database that provides a canonical view of our contacts, engagements, and their respective demographics. This has helped reduce operational costs from 3rd-party data management services and improved how we store and interact with our huge citizen-generated data from various countries, donors and contexts.
- Coordinating with mobile network operators and SMS aggregators in Kenya and Somalia to integrate, and monitor SMS shortcodes to aid our audience engagement.

JUNIOR OPERATIONS ENGINEER

AFRICA'S VOICES FOUNDATION | OCT 2019-APRIL 2022

- Developing analytics dashboards for monitoring, logging and alerting of data pipeline metrics.
- Development, management and maintenance of Operations Dashboard (Python, D3.js and Firebase) to help the team mainly monitor SMS traffic across different mobile network operators, message coding progress and gathering user feedback both within and outside on ways the dashboard can be improved further. This has become the go-to tool within the organisation for monitoring critical project processes and tasks.
- Providing technical support and maintenance to enable the smooth running of operations in the organisation including assisting other employees in resolving technical issues; actively updating, maintaining and monitoring 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.
- Collaborating with other software engineers and researchers to co-pilot pipeline operations.
- Developing middleware to send and receive SMS through aggregators and MNOs.
- Monitoring deployments, tracking outages, and providing root cause analysis and postmortem solutions for incident responses.
- Documenting existing operational processes and developing new ones as the infrastructure grows.
- Collaborating with a project leads to establishing technical and operational plans for deployments.
- Deploying Data dashboards, and data pipelines in firebase, GCP, and Linux docker environments.

EDUCATION

Catholic University of Eastern Africa (CUEA)

Bachelor of Science in Computer Science | 2021

Dagoretti High School

Kenya Certificate of Secondary Education | 2016