

DANIEL KIMASSAI KAKAI

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Personal Profile

Daniel Kakai is a software engineer with a key interest in full stack development and also interested data engineering.

Career and professional objectives

Kakai is keen in developing and managing simple yet high quality products using the latest technologies. Equally, Kakai envisions playing a fundamental role in creative and innovative teams that shape the technology, innovation and socio-economic development in Africa.

Key Skills

Python · Postgres · GraphQL · Django · Git · Google Cloud · Docker · Redis · HTML · CSS · MySQL · JavaScript · React · Flask · AWS · Node Js · React Js · Apache Beam

Career Summary and Key Responsibilities

Job Title	Organization	Year
Software Engineer	Twiga Foods	July 2021 – Present
I take part in designing and developing of supply chain systems that help the company improve stock monitoring, logistics and warehouse operations.		

Key Responsibilities include:

- Restful API and GraphQL API development
- Technical support
- Continuous integration
- Continuous deployment
- Unit testing and Integration testing

Skills Used: Python, Nameko, RabbitMQ, Redis, PostgreSQL, SQLAlchemy, Docker, GCP, GraphQL and Pytest.

Software Engineer**ITPros/ Mandatheque /No
Lodging****August 2020 – August
2021
(1 year)**

I took part in design and development of various projects mainly doing back-end web development.

Key Responsibilities include:

- Front end web development using Bootstrap and jQuery
- Backend development using Python/Django

Skills Used: React, HTML, Django, CSS, Python, MySQL, JavaScript, AWS, Google Cloud

**Back-end software
engineer****Kakbima****May to July 2020
(3 months)**

I was part of the back-end development team of the insurance management and distribution platform for insurance carriers, agencies and brokerages to manage their products and customers.

The platform helped reduce the lengthy processes and paperwork associated with the insurance industry.

Key Responsibilities include:

- Maintain and support Kakbima insurance platform which included a dashboard for administrators and customer website
- Design and develop Restful and GraphQL APIs
- Backend development using Python/Django
- Database administration for PostgreSQL
- Continuous integration and Continuous development
- Unit testing
- Containerization using Docker

Skills Used: Django, Python, Postgres, GraphQL, AWS, Docker

Software engineer contractor	International Institute of Tropical Agriculture (IITA)	July 2019 to April 2020 (10 months)
<p>Developed a system that farmers used to manage their activities like stock record keeping, sales, supplies and field status monitoring. This helped them reduce manual work in their daily activities.</p> <p>The system was also used by co-operative societies to provide services like payments and communication updates with the help of Twilio SMS API.</p> <p>Key Responsibilities include:</p> <ul style="list-style-type: none">• Design and develop web application for data visualization• Backend development using Python/Django• Database administration for PostgreSQL• Data collection using ODK tools		

- Develop programmable SMS system
- Create training material for users
- Continuous integration and Continuous deployment
- Unit testing and Integration testing
- DevOps

Skills Used: HTML, Django, CSS, Python, MySQL, PostgreSQL, JavaScript, ODK

Server-side engineer	KOKO Networks	July to October 2019 (4 months)
<p>Helped develop and maintain the company's fuel and products e-commerce platform for easy use by customers. The platform was available on web and through the company's fuel ATMs.</p> <p>Key Responsibilities include:</p> <ul style="list-style-type: none"> • Back-end development using python/flask • Front-end web development for user dashboard • Continuous integration and Continuous deployment • Unit testing and Integration testing • Lead workstreams with Product and QA to design and develop our applications • Level 3 support functions for production systems <p>Skills Used: HTML, Postgres, CSS, Python, Flask, JavaScript, AWS</p>		
Software developer	Kaziquest	February to June 2019 (5 months)

I was part of the team that developed the only Kenyan recruitment system powered by Google talent solutions API leading high accuracy job matching, the first of its kind in Kenya.

Key Responsibilities include:

- Front end web development using Bootstrap and jQuery
- Google talent solutions integration
- Backend development using Python/Django
- Database administration for MySQL
- Unit testing and Integration testing
- Mpesa API integration

Skills Used: React, HTML, Django, CSS, Python, MySQL, JavaScript, AWS, Google Cloud

PROJECTS

PROJECT	DESCRIPTION	TECHNOLOGY
Moniac 21 (manioc21.com)	A farmer management system for data collection, management and visualization.	<ul style="list-style-type: none">• Python• Django Web framework• ODK tools• PostgreSQL• Twilio SMS API• Bootstrap and jQuery
Kaziquest (www.kaziquest.com)	The only Kenyan Website and recruitment system powered by Google talent solutions API.	<ul style="list-style-type: none">• Python• Django Web Framework• Google Cloud talent solutions• Mpesa API• MySQL

		<ul style="list-style-type: none"> • JavaScript • Bootstrap and jQuery
Pricehub (inactive)	A search engine for online shopping used for comparing product prices.	<ul style="list-style-type: none"> • Python, • Django Web Framework • PostgreSQL • JavaScript • Nginx • Bootstrap and jQuery
Jijibot (https://t.me/theofficialcitybot_bot)	Artificial Intelligence Chat bot that helps people find directions, get traffic updates and weather updates in Nairobi.	<ul style="list-style-type: none"> • Python • Open Weather API • Django Web Framework • PostgreSQL
Mandatheque (Playstore link)	A mobile application for sharing books	<ul style="list-style-type: none"> • Django rest framework • React Native • Nginx • Python • JavaScript • PostgreSQL
Tweet meter (https://desolate-mesa-73172.herokuapp.com/)	A web application for Twitter sentiment analysis using Natural language processing	<ul style="list-style-type: none"> • Flask • React Js • Aws Lambda • Google cloud NLP • Python
ACHIEVEMENTS		
<ul style="list-style-type: none"> • October 2017, Winner Safaricom innovation challenge • November 2018, Participant Andela Fake News hackathon 		

Educational background:		
YEAR	SCHOOL	COURSE
2014 –2018	Jomo Kenyatta University of Agriculture and Technology	B.Sc. Mathematics and Computer Science
2010 to 2013	Lenana School	K.C.S.E (A)
2006 to 2009	Nzoia Sugar Company Primary School	K.C.P.E (A)
Professional Certifications:		
Year	Certification	Institution
2020	Introduction To Cyber security	CISCO
2021	Building Modern Applications On AWS	Coursera
Referees:		
<p>Mr. Morris Warima</p> <p>Engineering Manager Twiga Foods</p> <p>morris.warima@twiga</p> <p>0728404020</p> <p>Mr. Edwin Simiyu</p> <p>Founder Kaziquest</p> <p>edwin@kaziquest.com</p> <p>0727038798</p> <p>Bertrand Omuga</p>		

Co-founder Kakbima

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