

Patrick Walukagga

Kampala

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Experienced Software Developer with a demonstrated skill in Python (Programming Language) and its frameworks(Django and Flask), SQL Databases(PostgreSQL and MySQL), API Development, Python Pandas, and Numpy.

Work Experience

Python/Django Developer Contract

HAMWE EA - Kampala, Uganda

June 2021 to Present

Contracted as a Python Django Backend developer to work on an Agriculture Digitization Value Chain application in collaboration with MTN RWANDA.

Experiences

- Collaborated with the team to develop and deploy Django backend RestAPI.
- Managed continuous integration and continuous deployment pipeline (CI/CD) with Github actions to deploy Django RestAPI to Digital oceans with docker, Nginx, and unicorn.
- Collaborated with the internal team to design and configure Postgres database and backend for the RestAPI.
- Developed, tested, and debugged software modules for user registration, cooperative registration and onboarding, profiling and onboarding of farmers.
- Collaborated with the team to develop the collections and shipment modules.
- Collaborated with the team to develop a USSD module for farmer collection produce and loan management.

Python/Django Developer Contract

BoldGains - Dubai

August 2021 to January 2022

Python Django Backend Developer on Blockbrite payment gateway

Experiences

- Wrote unit and integration tests for existing modules (user module, mpesa transactions module)
- Collaborated with the team to develop a module for Bank transaction integration.
- Wrote unit and integration tests for the bank transaction module.

Software Developer

Andela - KAMPALA, UGANDA

November 2017 to December 2021

Andela is a network of technology leaders dedicated to advancing human potential. We help companies build high-performing distributed engineering teams by investing in Africa's most talented software developers. Backed by Chan Zuckerberg Initiative, GV and Spark Capital, Andela is catalyzing the growth of tech ecosystems across the African continent while solving the global technical talent shortage.

Experiences

- Developed web applications and Restful APIs with Python(Django and Flask) and integrate with third party APIs.
- Part of the team that developed an internal tool for Andela for managing meeting rooms(MRM) with Python, Flask, GraphQL, PostgreSQL
- Experience with writing unit tests and using Continuous Integration(CI) tools.
- Exposure with Heroku, AWS(EC2, ECS) and Docker.

Python/Django Developer

NITA-U IT - Kampala, Uganda

May 2020 to December 2020

NITA-U IT - An extranet application for collaborative interaction between NITA-U IT Certification Office workforce, stakeholders, and Certification objects.

Experiences

- I was part of the team that developed Restful API with Python/Django specifically creating certified companies endpoint which would later be integrated into systems of other certification objects and stakeholders.
- Added SMS integration for SMS notifications in the application. Also enabled email notifications at the different stages of the application for the required stakeholders. For examples, user registration(signup with confirmation email link), user certificate application, report auditing, etc
- I was part of the team that modified the IT certification workflow in the system, that was from the point of certificate application to certificate generation.
- Worked on modifying/updating invoice generation for all domains(IT Service Providers, Individual Service Providers, IT Training Institutions, etc) and levels of the certification application process.

Software Engineer

Tarana Wireless - Santa Clara, CA

February 2019 to December 2019

Tarana addresses persistent real-world challenges in both mobile and fixed access networks, and has combined many antennas and radios, a suite of unique algorithm innovations, and expert implementation to create the industry's first truly viable 5G wireless technology, commercially available today. Well-proven in tier-1 mobile and fixed operator engagements, the company's products offer fundamental advances in wireless performance and autonomous adaptation that yield dramatic improvements in the economics and deployment flexibility of fixed and mobile access, plus a wide range of fiber extension applications.

Experiences

- I worked on building and adding new features for an internal inventory application used by other departments for reserving of hardware equipment during the testing processing.
- I was also part of the team responsible for developing test tools that are used by the other departments for automated testing. Automated testing in the laboratory (Delivery Verification Testing) helps to make sure that the different devices have the correct metrics and are functioning as expected before being released to the residential sites.
- I was also part of the team that built a stand-alone web application for consuming elastic search data logged by the program tools. The app is responsible for displaying data visualizations, command history logged to elastic search by the command-line tools against the lab resources for users from other departments and the lab users to use it, interpret and make decisions.

Education

Bachelor's in INFORMATION TECHNOLOGY

NKUMBA UNIVERSITY

February 2012 to October 2015

Skills

- Git (4 years)
- Javascript
- Python (4 years)
- PostgreSQL
- Docker
- Heroku
- GitHub
- GitLab
- Continuous Integration/Continuous Deployment
- Django (3 years)
- Flask (2 years)
- API Development (3 years)
- GraphQL (1 year)
- React (Less than 1 year)
- AWS
- JSON
- REST
- MongoDB
- Pandas
- Numpy
- SQL
- GCP

Links

<https://github.com/PatrickCmd?tab=overview&from=2022-06-01&to=2022-06-29>

<https://www.linkedin.com/in/walukagga-patrick-53261382>