

# Akinsola Adefolahan

## Full Stack Developer

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## OBJECTIVE

I am very big on value contribution, my goal is to be a part of, or contribute significantly to the development of a high-performing reputable organization. I intend to apply and enhance my skills and knowledge while making valuable contributions.

## SKILLS

### Technical

- Languages: Python, JavaScript, Typescript, Kotlin
- Frontend: HTML, CSS, Bootstrap, React
- Backend: Django, Flask, Fastapi, Node.js
- Database: MySQL, PostgreSQL, MongoDB, AWS DynamoDB, Google's Firebase
- CI/CD: Git, GitHub, Docker, AWS Code Commit, AWS Code Deploy, Aws Code Build, AWS Code Pipeline
- Agile: Trello, Slack, Discord, Swagger, Postman
- Machine Learning: TensorFlow
- Desktop Apps: PySimpleGUI, Flet

## EXPERIENCE

NeuralFarms Limited – Full Stack Developer (python, JavaScript, Typescript) - Nigeria

December 2019 – May 2023

- I contributed to the development of a mobile app for agriculture (having over 3000 active users) allowing users carry out plant pest, plant disease detection, and soil fertility testing.
- I designed and developed SAAS web applications and microservices using Django and Flask Framework, allowing for smooth model delivery and usage.
- I carried out deployment of SAAS applications to AWS EC2 instances for production usage
- I created production CI/CD pipelines using AWS CodeCommit, CodeBuild and CodeDeploy
- I containerized and pushed apps to AWS ECS for easy usage with testing and deployment
- I developed REST Apis using Django Rest Framework, FastApi for async and static serving
- I developed Frontend apps using react (Typescript) while integrating Rest Apis

Acepay – Backend Developer (python) - Remote, Philippines

August 2021 – December 2021

- Designed and developed a custom payment processing gateway using Flask Framework for in app payments, enabling swift bank to bank transactions.
- I also wrote web application testing using selenium to ensure service operation was smooth
- I carried out deployment to AWS EC2 instance for web serving and production usage
- I also refactored the payment processing codebase for better performance

Crane Composite – Desktop App Developer (python) - Remote, United States

April 2021 – May 2022

- I developed a desktop applications using pythons pysimplegui enabling product quality monitoring during production reducing cost and waste
- I collaborated with product researchers and machine learning engineers to determine software specifications to understand and refine the features of the tool built

Doxael – Backend Developer (python) - Remote, India

April 2022 – May 2022

- I built the backend for a multi-vendor e-commerce web and mobile application using the Flask Framework, this enabled various business create their own e-commerce web and mobile stores, similar to how printify or shopify works.

Welcome Homes – Backend Developer(python) - Remote, United States

March 2022 – February 2023

- I contributed extensively to the development of test for the application backend
- I created a CI/CD pipeline using GitHub for Heroku servers
- I contributed to a number of codebase and feature refactoring
- I created a tool that converts developed shapefile to CAD files enabling smooth interaction between the design and development teams

WallFly LLC - (Lead Backend Python Developer) - Remote, United States

June 2023 – Present

I currently work as the lead backend developer here

- I handle feature creation and delivery
- I have made significant contributions to the development of automation pipelines for real time stream audio and video processing for transcription
- I developed AI prompts and integrated AI for data analysis, improved transcription quality and more
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## PROJECTS

### 1. AGROAI

Agroai is an AI powered mobile app for agriculture. It aims that enable farmers identify possible crop diseases and pest as well as carry out soil testing to determine crops that would grow optimally on a farmland.

- I developed the ML models used in the mobile apps
- I collaborated with mobile developers to build the app features as well as with the data scientist in gathering the required data
- I also designed, developed and deployed the product website.

**STACK:** Flask and MySQL

**URL:** [AgroAI App](#)

## 2. DOXAEL

Doxael is a multivendor e-commerce web and mobile app, where vendors register and are allowed to post their product for sale. Users are then able to purchase said product. Admins are also able to create and promote products.

- In collaboration with the mobile developers, I designed and developed the backend Apis using Flask Framework for data delivery to the mobile apps
- I deployed the backend Api to heroku

**STACK:** Flask and MySQL

## 3. WELCOME GEOMETRY ENGINE

Welcome geometry engine serves as a REST API to perform geometry operations on parcels.

- I developed test for pre-existing functionalities and Api endpoints
- I contributed to the project by creating a parcel shapefile to CAD file converter.

**STACK:** FastApi, PostgreSQL, Redis, Celery, Flower

**URL:** <https://welcomehomes.com>

## 4. WINSSIM

WinSSIM is a quality monitoring desktop app for Fibre Reinforce Plastic (FRP) while it is still in production.

- I developed and designed the user interface
- I developed the algorithmic backend and integrated the machine learning models which are used to determine the FRP quality

**STACK:** PyimpleGUI, Tensorflow, SQLITE

**URL:** <https://cranecomposites.com/>

## 5. BROCCOLI COUNTER

Broccoli counter is a web app that help large scale farmers keep track of the number of crops they are growing by using drone imagery along with a custom machine learning object detector and counter.

- I contributed to the development of the custom crop counter

**STACK:** python, TensorFlow

**URL:** <https://www.agxactly.com/>

## 6. WALLFLY

Wallfly is an AI powered SAAS tool that listens to government meetings, so users don't have to

- I worked on the automated process of connecting, listening and disconnecting from the meets.
- I built test for the backend.
- I integrated multiple stream sources for stream data capture.

**STACK:** python, Fastapi, Bubble, Heroku

**URL:** <https://www.getwallfly.com>

## EDUCATION

Federal University of Agriculture, Abeokuta – B.Engr. Mechatronics Engineering

November 2014 – January 2021

### Relevant Courses:

- [AWS Machine Learning Foundation](#)
- [Docker Beginners Course](#)
- [Django Web Framework](#)
- [Introduction to Android Mobile Development](#)
- [Version Control](#)
- [Programming Fundamentals in Kotlin](#)
- Containerized application in aws (Coursera)
- Stanford University Machine Learning (Coursera)