

# LANGAT NICKSON

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## EDUCATION

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I am a self taught full stack software engineer with a knack for perfection and gifted with a strong desire to write beautiful code. I have learned through building and deploying web and mobile apps to Google PlaySore, Apple AppSore and remote servers, pushing code to GitHub and getting peer code reviews. I love the daily challenges of software development: writing quality code, learning new technologies and am intrigued by the idea of solving complex problems through code. I'm passionate about the accessibility of tech, secure coding and mental awareness. I look forward to working on a team that is customer oriented and passionate about their product.

## WORK EXPERIENCE

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**MjengoSmart** / <https://www.mjengosmart.com/>

*Back end web developer*

Nairobi, Kenya  
FEB 2018 - FEB 2019

- Defined & designed back end solutions and software components along with detailed documentation that can be used by developers internally.
- Developed and improved features for different areas for our back end thus boosting performance.
- Ensured that security & quality assurance best practices are followed throughout the entire software development cycle.
- Run & monitored performance tests on new & existing software for the purposes of correcting mistakes, isolating areas for improvement and general debugging.
- Performed deployment and source control utilizing GIT at regular intervals.

**Inuua Tujenge** / <https://www.inuua.net/>

*Full Stack Web Dev*

Nairobi, Kenya  
April 2019 - April 2020

- Involved in the designing user interface and experience of the website.
- Wrote the code responsible for the front end as well as back end architecture of the website.
- Created the servers and databases for smooth functionality and interactions of web pages.
- Paid attention to mobile responsiveness thus achieving cross-platform optimization for mobile phones.
- Designed and developed company APIs as well as ensuring they are constantly maintained following industry best practices.

**Adrian Kenya Limited** / <https://adriankenya.com/>

*Back End Developer*

Nairobi, Kenya  
May 2020 - April 2021

- Designed, wrote, maintained and improved app performance by optimizing the databases ,Django ORM and Rest Framework serializers. This smoothened consumption of the endpoints by the front end team.
- Containerized the entire back end API using docker and this ensured resources are efficiently utilized thus saving on costs while enabling us to ship new features quickly to production.
- Wrote thorough enough end to end tests for the API endpoints and unit tests for different parts of code enabling us to quickly fix bugs before deploying to production.
- Set up CI/CD pipeline for both the back end and front end stacks using CircleCi for tests automation and server deployments and this eliminated the need to manually check things up. That time is put into implementing new features.
- Configured nginx to act as load balancer that distributes incoming traffic around to our servers and this resulted in improved performance. scalability and reliability of our web platform by our users.

## SKILLS

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LANGUAGES::	Python, JavaScript, TypeScript
BACK END::	Django, Django Rest Framework, Flask, Docker
FRONT END::	Angular, Vue, HTML, CSS
MOBILE::	Ionic Framework, Flutter
DATABASES::	PostgreSQL, Firebase, MySQL
SERVERS::	Digital Ocean, Linode, GCP, Heroku, AWS, Oracle
ENVIRONMENT::	MacOS/Unix, Linux Ubuntu, Linux Mint
CI/CD & VERSION CONTROL::	Git, CircleCi, Jenkins

## PROJECTS

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### **Iplex Software Academy** *Flask, HTML/CSS/JS, Netlify*

<https://github.com/nicksonlangat/software-academy.git>

This is a website page for an institution that teaches students how to code so that they can start a career in tech.

### **Attendance Monitor** *Django, HTML/CSS/JS*

[github.com/nicksonlangat/attendance](https://github.com/nicksonlangat/attendance)

An employee management software with daily, weekly and monthly PDF reports. It can be used to track who was present or absent within a given time period and the data used for decision making.

### **Bikey** *Django, HTML, CSS*

[github.com/nicksonlangat/myshop](https://github.com/nicksonlangat/myshop)

An online shop that sells original and high quality mountain bikes. It has a checkout, payment and delivery service so the user doesn't have to move out of their rooms. We handle everything from the get go.

### **Pamoja Housing Agency** *Django, HTML, CSS*

[github.com/nicksonlangat/easy\\_rentals](https://github.com/nicksonlangat/easy_rentals)

A web platform that helps tenants find residence easily in cities & towns. It aims to relive the citizens of the headache of looking for where to live and hence they can focus on generating income knowing we got their back in matters housing.

### **Nganya-Poa USSD** *Africas Talking, Django, Python*

[github.com/nicksonlangat/nganya-poa.git](https://github.com/nicksonlangat/nganya-poa.git)

Crucial utility service that allows travelers to book bus seats without the need to queue at booking stations. Just dial a code \*384\*1827\* and access several features related to your travel info.

### **County Scraper** *Python, Requests, BeautifulSoup4*

[github.com/nicksonlangat/county\\_scrapper](https://github.com/nicksonlangat/county_scrapper)

A web scraper that crawls Wikipedia and gathers location info about the 47 counties in Kenya, their constituencies and wards.

### **Skryn** *Ionic, Angular, MovieDB*

<https://github.com/nicksonlangat/skryn.git>

It is a mobile app that makes use of The Movie DB Rest API to get a variety of TV Shows and then beautifully display them to the user. It allows for trailer viewing and torrent downloads. It runs on both android and iOS.

### **e-VENT** *Django Rest Framework, Ionic, Angular*

<https://github.com/nicksonlangat/e-vent.git>

A mobile app that allows programmers to keep track of upcoming, annual or live events revolving around coding best practices, code pairing and meet ups. The goal is to constantly reinforce ideas and expand the coding community.

### **Expense Doctor** *Vue Js*

<https://github.com/nicksonlangat/expense-doctor.git>

This project comes in handy when you need to keep a track record of your flow of finances. Everything is neatly captured and displayed in a clean manner. Am working on sync feature across user's devices.

### **kazi-script** *Python, Requests library, BeautifulSoup4*

<https://github.com/nicksonlangat/kazi-script.git>

This is a Python script that crawls the web to scrap job listings from <https://ihub.co.ke> then outputs the results via the console.

### **Kazi-Spot** *Django, HTML, CSS*

<https://github.com/nicksonlangat/kazi-spot-web.git>

This is a website that grabs the output from kazi script then displays them on a page beautifully.

### **Kazi-Spot Mobile** *Django Rest Framework, Angular, Ionic*

<https://github.com/nicksonlangat/kazi-script-mobile.git>

An app that consumes the API endpoint exposed by the web version of the kazi script web scraper built.

### **Mama Fresh** *Firebase, Ionic/Angular*

<https://github.com/nicksonlangat>

A groceries delivery app. A customer places an order of fruits, veges etc and proceeds to checkout. Payment is on delivery.

### **Bolt Electronics** *Ionic/Angular, Firebase, DRF*

<https://github.com/nicksonlangat>

An all under the hood electronic appliances shop that one can buy order from. The items are categorized for smoother navigation in app

### **Coinsnap** *BeautifulSoup, Celery, Python*

<https://github.com/nicksonlangat/coinsnap>

Inspired by current crypto trends, I built a web scraper script, made an API from it then created a page to display the data. The data is refreshed every ten seconds.