

# Ali Wangara

Nairobi city, Nairobi • +254700331844 • Aliwangara63@gmail.com • linkedin.com/in/aliwangara

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## Python Backend Developer

Python Backend Developer with over 2 years of experience building and maintaining scalable backend systems, REST APIs, and database-driven applications using Django, Django REST Framework, PostgreSQL, MySQL, and MongoDB. Proven experience integrating third-party APIs, optimizing backend performance, writing clean, testable code, and delivering maintainable systems in agile environments.

### SKILLS

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**Programming Languages:** Python, JavaScript, HTML, CSS

**Frameworks:** Django, Django REST Framework, FastAPI, Flask (basics)

**Databases:** PostgreSQL, MySQL, SQLite3, MongoDB

**Tools:** Git, GitHub, Restful Apis, Unit testing, Postman

**Soft Skills:** Problem-solving, teamwork, time management, communication.

### WORK EXPERIENCE

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**Freelance • Nairobi, Kenya • 05/2023 - Present**

#### Web Developer

- Developed 10+ personal projects, showcasing proficiency in web development and a strong command of both frontend and backend technologies.
- Reduced front-end development time by 40% by providing well-designed and documented RESTful APIs.
- Designed relational database schemas for 4 applications using MySQL and PostgreSQL, increasing data retrieval efficiency by 25%.
- Utilized Git for version control in all projects, practicing effective branching strategies and enabling collaboration on open-source contributions.
- Integrated third-party APIs (social media, payment, and authentication services)

**WHTA NETWORK • Nairobi, Kenya (Remote) • 02/2024 - 06/2024**

#### Backend Developer

- Collaborated with the Backend development team, contributing to projects using Django, MySQL. Resulting in a 100% completion rate
- Reduced front-end development time by 40% by providing well-designed and documented RESTful APIs, enabling front-end developers to focus on user interface development.
- Maintained a MySQL database for WHTA NETWORKS with 300 active users, performing regular backups and achieving 80% uptime through proactive performance monitoring and troubleshooting.
- Wrote technical documentation and collaborated with cross-functional teams to ship backend features

## PROJECTS

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### Facial Recognition Attendance System

[https://github.com/Aliwangara/Facial\\_Recognition.git](https://github.com/Aliwangara/Facial_Recognition.git)

Tech Stack: Django, Django REST Framework, OpenCV, MySQL, JavaScript (WebRTC)

- Built a web-based attendance system that uses facial recognition to mark users present.
- Integrated webcam-based face detection using JavaScript and OpenCV.
- Automated attendance logging with timestamp storage in a MySQL database.
- Designed a secure admin dashboard to monitor attendance logs and manage users.
- Added role-based access control and OAuth 2 authentication for secure access.

### Spreading Smiles Charity Website

Tech Stack: Python, Django, PostgreSQL, Bootstrap

- Built a scalable backend for donation processing, campaign management, and user authentication.
- Created REST APIs for donors, transactions, and campaign data using Django REST Framework.
- Integrated third-party email and payment services M-Pesa

### Social Media Analysis Tool for Reddit & X (Twitter)

Tech Stack: Django, Python, PRAW, Tweepy, Pandas, Matplotlib, PostgreSQL

- Developed a data-driven analytics platform to monitor social media trends and sentiment.
- Fetched posts and comments using Reddit and Twitter APIs.
- Performed sentiment analysis and keyword tracking for real-time insights.
- Visualized user behavior and content engagement trends using graphs and charts.

## EDUCATION

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### Certificate in Web development

Emobilis technical training institute • Nairobi, Kenya • 04/2023

- Gained practical skills in front-end and back-end development using HTML, CSS, JavaScript, and Python.
- Learned database management using SQL and NoSQL tools.
- Built and deployed several web applications as part of coursework and individual projects.

### Diploma in Business Information Technology

KCA UNIVERSITY • Nairobi, Kenya

- Acquired foundational knowledge in IT systems, software development, and business processes.
- Gained hands-on experience with:
  - Data Structures & Algorithms (DSA): Mastered the use of arrays, linked lists, trees, and sorting/searching algorithms.
  - Computer Organization & Architecture: Understood how computers process information at the hardware and system levels.
  - Computer Networking: Learned network models, protocols, and basic configuration for LAN/WAN setups.
  - Systems Analysis: Documented business requirements and converted them into technical specifications.
  - Database Systems: Designed and queried relational databases using SQL.
  - Software Engineering Principles: Covered SDLC models, documentation, and testing strategies.

## CERTIFICATIONS

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### Emobilis-web development Certificate

## VOLUNTEERING & LEADERSHIP

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### Spreading Smiles • 04/2020 - Present

Technology manager

- Managed technical aspects of the organization, including system support and troubleshooting.
- Provided process feedback to enhance system reliability and user experience.