

Brandon Khumalo

BACKEND DEVELOPER

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[LinkedIn](#)

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[Portfolio](#)

PROFESSIONAL SUMMARY

Entry-level backend developer with hands on AWS experience specializing in Django for building robust and scalable backend systems. I have hands-on experience developing RESTful APIs, integrating backend services, and optimizing application performance. My strengths include problem-solving, clean code practices, and delivering efficient, maintainable solutions tailored to user needs.

I am an AWS Certified Cloud Practitioner with practical experience deploying and managing backend services on AWS. I am committed to continuous learning and staying up to date with emerging technologies to enhance my development capabilities and contribute effectively to backend-focused projects. I am currently working towards getting my AWS Cloud Developer certificate.

SKILLS

Programming Languages: Java, Python

Frameworks and Technologies: Django, DRF, RESTful APIs, Firebase, AWS

Development Tools: Git & Github, VSCode, Docker

Soft Skills: Adaptability, Critical Thinking, Problem-Solving, Time Management, Collaboration, Effective Communication

Projects

Online Voting System – Backend

School Project | July 2025 – August 2025

- Designed and implemented a scalable RESTFUL API backend for an online voting system using Django Rest Framework and PostgreSQL, enabling seamless poll creation, voting and real-time result computation.
- Architected optimized database schemas with appropriate indexing to support high-frequency vote operations and efficient data retrieval.
- Developed secure API endpoints with robust validation, preventing duplicate voting and restricting interactions on expired polls.
- Integrated real-time vote result broadcasting using Django Channels and WebSockets, providing live updates to frontend clients and enhancing user engagement..
- Authenticated and authorized API access through DRF permissions and token-based mechanisms to safeguard user actions.
- Wrote extensive unit and integration tests covering models, serializers, views, and routing to ensure reliability and maintainability of backend services.
- Containerized the application using Docker and Docker Compose, managing environment

variables securely for development and production deployments.

Tech Stack: Python, Django, Django REST Framework, PostgreSQL, Redis, Django Channels, WebSockets, Docker, Swagger/OpenAPI, pytest, Git

TumaGo – Backend Mobile Package Delivery App

Personal Project | April 2025 – July 2025

- Designed and developed a scalable Django backend to support a real-time mobile logistics platform for booking and managing local package deliveries.
- Implemented real-time two-way communication between clients and drivers using Django Channels, WebSockets, and Daphne.
- Integrated JWT authentication with role-based access control to manage both client and driver logins through a unified system.
- Configured RESTful APIs using Django REST Framework to handle booking, delivery tracking, messaging, and driver-client interactions
- Set up asynchronous background task processing using Dramatiq with Redis to handle notifications and other time-intensive operations.
- Connected Firebase Cloud Messaging via Firebase Admin SDK for push notification delivery from the backend.
- Designed the backend architecture to support future scalability, including modular driver onboarding, city-based routing logic, and efficient data handling.
- Containerized the backend with Docker

Tech Stack: Django, Django REST Framework, Django Channels, Daphne, Dramatiq, Redis, MySQL, JWT, Firebase Admin, Docker

EDUCATION

ALX Africa	Jan 2025 - Aug 2025
Pro Backend Development	

CERTIFICATES

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|------------------------------------|-------------------|
| ❖ AWS Cloud Practitioner | June 2024 |
| ❖ ALX Professional Foundations | April 2025 |
| ❖ Scientific Computing with python | June 2025 |