

Brandon Khumalo

SOFTWARE DEVELOPER

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

PROFESSIONAL SUMMARY

I am an entry-level mobile and backend developer with expertise in Java for Android development and Django for backend systems. I have been actively building projects to sharpen my skills. My top skills include mobile app development, backend API integration, and problem-solving. What sets me apart is my ability to build scalable, efficient, and user-friendly applications while continuously learning and adapting to new technologies.

SKILLS

Programming Languages: Java, Python

Frameworks and Technologies: Django, RESTful APIs, Firebase, Retrofit, AWS, GoogleMaps

Development Tools: Git & Github, Android Studio, VSCode, Gradle, 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 – Fullstack Mobile Package Delivery App

Personal Project | April 2025 – June 2025

- Designed and developed a full-stack mobile logistics platform enabling clients to book local package deliveries and drivers to accept jobs based on vehicle type (motorbike, van, or truck).
- Built and containerized a Django backend with real-time capabilities using Django Channels, WebSockets, and Daphne for two-way communication between clients and drivers.
- Implemented JWT authentication with role-based access control for users and drivers in a single authentication system.
- Set up background task processing using Dramatiq + Redis for notifications and asynchronous operations.
- Integrated Firebase Cloud Messaging for real-time push notifications on delivery status and messages.
- Developed native Android applications in Java for both client and driver users, integrating Google Maps, Places API, and live location tracking.
- Configured REST APIs with Django REST Framework and managed stateful app communication via Retrofit and OkHttp on the mobile frontend.
- Designed an extensible architecture allowing easy onboarding of drivers, scalable delivery matching logic, and seamless expansion to new cities.

Tech Stack:

Backend: Django, Django REST Framework, Django Channels, Daphne, Dramatiq, Redis, MySQL, JWT, Firebase Admin, Docker, AWS (EC2, RDS)

Frontend: Java (Android), Retrofit, OkHttp, Firebase Messaging, Google Maps SDK, Places API, WebSockets

DevOps & Tools: Docker, AWS EC2, RDS, Firebase, Git

Roadlink Solutions

Feb 2025 - Mar 2025

- Gained foundation on working with a group.
- Created a prototype of a pothole rerouting mobile app.
- Used canva to design and present the prototype.
- Gained team collaboration skills

Tech Stack: Canva, Microsoft Excel, Loom, Google Forms

Swiss Express

Feb 2025 – Mar 2025

- Continued growing my experience in mobile development, focusing on Java.
- Created a bus booking app for a real world cross border bus company Swiss Express.
- Allows clients to track their parcel.
- Search for a bus on a particular day.
- Receive updates if there are any changes with the bus schedule.

Tech Stack: Java, Android Studio, Git & Github, Firebase

OneBankAfrica

Jan 2025 - Feb 2025

- Gained a strong foundation in mobile development, focusing on Java.
- Created a simulation of a real world banking app.
- Includes withdrawing and deposit features.
- Real Time account balance updates.
- Bank statement download feature.

Tech Stack: Java, Android Studio, Git & Github, Firebase

EDUCATION

ALX Africa

Jan 2025 - Aug 2025

Pro Backend Development

Udemy

Nov 2024- March 2025

Java Android Mobile Development

CERTIFICATES

- ❖ AWS Cloud Practitioner
- ❖ ALX Professional Foundations
- ❖ Scientific Computing with python

June 2024
April 2025
June 2025