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   **June 2024**
- ❖ ALX Professional Foundations   **April 2025**
- ❖ Scientific Computing with python   **June 2025**