

# Unarine Dzivhani

Junior Software Developer · Mobile (Flutter & Android) · Backend · Full-Stack Web

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## PROFILE

Junior Software Developer and Computer Science graduate (University of Venda, 2025) specialising in Flutter, Kotlin, and full-stack web development. Independently designed, built, and shipped PhaseOut — a production Android app featuring an autonomous Kotlin background service and on-device ML — iterating through two beta releases driven by real user feedback. Achieved distinction-level results in Software Engineering, Distributed Operating Systems, and Systems Analysis in final year. Experienced with Git-based workflows, Firebase, RESTful APIs, and cross-platform mobile development. Seeking a collaborative team environment to build reliable, user-focused software.

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## TECHNICAL SKILLS

**Mobile:** Flutter · Dart · Kotlin · Android SDK · Firebase · SQLite · Background Services

**Web:** TypeScript · Next.js · HTML · CSS · JavaScript

**Backend/DB:** Node.js · PostgreSQL · Firebase · SQLite · RESTful APIs

**ML / AI:** Python · TensorFlow · OpenCV · Computer Vision · On-device ML

**Languages:** Dart · Kotlin · Python · Java · C++ · JavaScript · TypeScript · PHP

**Tools:** Git · GitHub · Android Studio · VS Code · Google Maps API · Figma

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## PROJECTS

### PhaseOut — Android Sleep Automation App · Production Release 2025

*Flutter · Dart · Kotlin · SQLite · Firebase · On-device ML · [View Project](#)*

- Architected and independently shipped a production-grade Android app from scratch, delivering 2 beta iterations shaped entirely by real user feedback — sole developer across design, engineering, and deployment.
- Engineered a Kotlin foreground service that executes user-defined sleep schedules autonomously overnight, surviving app restarts and device reboots without user intervention.
- Built and integrated an on-device battery prediction model (linear regression, 28-day rolling window) that reduced unexpected device shutdowns during scheduled overnight runs.

### FoodBridge — Local Food Marketplace · In Progress 2026

*TypeScript · Next.js · Full-Stack · [Live Demo](#)*

- Designing and building a full-stack marketplace connecting local food sellers (home cooks, produce vendors) with nearby buyers — architecting both seller-side product management flows and buyer-facing discovery experience.
- Implemented a freemium monetisation model from scratch: 30-day free trial followed by subscription billing, including seller onboarding, product listing, and subscription state management.

### Face Extraction — Computer Vision Model Nov – Dec 2024

*Python · TensorFlow · OpenCV · Google Colab*

- Trained a computer vision model to detect and extract faces from full-body images with consistent precision across varied lighting conditions and backgrounds.
  - Applied image preprocessing pipelines — normalisation and data augmentation — in TensorFlow to improve model generalisation on unseen test data.
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## EXPERIENCE

### Programming & AI Tutor · University of Venda (Private + Formal Classes) 2025

- Ran one of the university's highest-attended private tutoring programmes, reaching 60+ students per month across 2nd and 3rd year cohorts — attracting students before semester began in the first year of operation.
- Delivered structured lessons on Data Structures & Algorithms and AI Fundamentals, achieving a 100% pass rate across all programming modules taught.
- Operated both formally (university-organised modules) and privately (paid by students directly), demonstrating entrepreneurial initiative alongside academic credibility.

### Competitive Hackathon Participant · LVH Hackathon · Mintek Hackathon, Randburg 2024 – 2025

- LVH Hackathon — 3rd place: built a Chrome extension using the Chrome API to detect phishing attempts in real time by analysing malformed and scam URLs.
  - Mintek Hackathon, Randburg — 4th place: designed and presented an automated pothole patching system, developing a novel filling method and repair workflow from concept to presentation.
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## EDUCATION

### **BSc Computer Science · University of Venda 2023 – 2025**

- Degree officially conferred May 2026. Finished with distinction-level results in Software Engineering, Distributed Operating Systems, Systems Analysis & Design, and Evaluation of Information Systems in the final year.
  - Relevant coursework: Data Structures & Algorithms, Artificial Intelligence, Object-Oriented Programming, Database Management & Design, Web Technologies, Software Engineering, Distributed Systems, Human-Computer Interaction.
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## REFERENCES

### **Dr. T.B. Mphaphuli**

*Pastor & Mentor · Grace Fellowship Bible Church*

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### **Dr. Benson Moyo**

*Lecturer, University of Venda*

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