Tapiwa Makandigona

Contact: +91 91508 74957 | E-mail: tapiwamakandigona.2026eee@sece.ac.in | tapiwamakandigoner@gmail.com
LinkedIn | GitHub | Portfolio

EDUCATION

COLLEGE EDUCATION - Sri Eshwar College of Engineering, B.E. Electrical & Electronics Engineering | Presidential Scholar **2026-2030**
SCHOOLING-- Westview College, Zimbabwe || Cambridge A-Levels: Maths (A), Physics (B), Chemistry (C) **2024-2025**
SCHOOLING-- Saint Patrick's High School, Zimbabwe || ZIMSEC O-Levels: 8 A's, 2 B's **2020-2023**

EXPERIENCE

Tsoro Studios - Founder & Indie Game Developer **2026 - Present**
Run an indie studio shipping Android games and web apps solo: own design, development, playtesting, balancing and near-daily CI/CD releases.

PROJECTS

Emberdelve - Fair-Dice Roguelite — GitHub — 2026
Tech Stack : Flutter, Dart, Flame, Google Play Billing, GitHub Actions
Shipped solo a commercial Android game live in 177 countries with 100+ downloads: 200+ public releases, 1,500+ automated tests, signed CI builds, offline-first, no ads; 22-character roster with lore and progression systems.

TapRide - Ride-Hailing Platform — GitHub — 2026
Tech Stack : React, TypeScript, Appwrite, Leaflet / OpenStreetMap, Capacitor
Built live GPS tracking, real-time driver matching, in-app chat and dynamic fares; shipped a cross-platform Android build from one React codebase.

ZimPay - Digital Banking Simulation — GitHub — Dec 2025
Tech Stack : React, TypeScript, Tailwind CSS, Supabase (PostgreSQL, Auth, RLS)
Architected secure auth, row-level security, real-time balance updates and ACID ledger transfers with a responsive UI.

LedgerFarm - Multi-Entity Bookkeeping — GitHub — 2026
Tech Stack : Next.js, TypeScript, PostgreSQL
Developed a platform managing 2-15 entities with automated intercompany tracking and CPA-compliant exports.

VoltZW - Electricity (ZESA) Tariff Engine — Live — 2026
Tech Stack : React, TypeScript, Tailwind CSS
Production app in daily use: computes 6 stepped tariff tiers, 6% REA levy and 400 kWh quotas in ZiG and USD; auto-deployed from main.

LanLink - Offline File Sharing — About — 2026
Tech Stack : Flutter, Dart, mDNS / UDP
Peer-to-peer file transfer over Wi-Fi/hotspot with no internet or accounts; auto-discovery across Android, iOS, Windows, macOS and Linux.

Streetsmart & Cooksense (ML) | Autonomous Robotics (EEE) — 2026
Tech Stack : Python, PyTorch, scikit-learn, Arduino IDE, Ultrasonic Sensors
Tuned deep tabular neural networks (GELU, LayerNorm, label smoothing, AdamW) for AI Olympiad benchmarks; built line-following and obstacle-avoidance robots using ultrasonic sensors in EEE coursework.

ACHIEVEMENTS

Level 3 Award (GAITE) - International Olympiad in AI (IOAI), Astana, Kazakhstan; Team Zimbabwe vs 100+ countries **2026**
Bronze Medal & 4th Place Team - African Olympiad in AI (AOAI), Sousse, Tunisia **2026**
Finalist - National Olympiad in AI (NOAI), Zimbabwe **2026**
4th Place - CTRL+Z Collegiate Cybersecurity Hackathon (CTF), SECE **2026**
Ranked 71/340 (top 21%) - Zindi climate prediction challenge (ongoing) **2026**

CODING PROFILES

LeetCode: makandigona | Contest Rating: 1,480 | 65 Solved | CodeChef: glad_cats_18 | 2-Star Div 3 | Rating: 1,587 | 91+ Solved | Country Rank: 18,990 | SkillRack: 100+ Programs | GeeksforGeeks: 40 Solved | Codeforces: glad_cats_18

CERTIFICATIONS

Introduction to TensorFlow for AI, ML & Deep Learning | DeepLearning.AI / Coursera

TECHNICAL SKILLS

Languages	Python | C | C++ | TypeScript | JavaScript | Dart | SQL | Kotlin | C# | HTML5 | CSS3
Technologies/Frameworks	React | Next.js | Node.js | Flutter | Flame | Tailwind CSS | Three.js | Capacitor | PyTorch | scikit-learn | pandas | NumPy
Database	PostgreSQL | Supabase | Appwrite | Firebase | SQL
Tools	Git | GitHub Actions (CI/CD) | Docker | Linux | Vercel | REST APIs | Arduino IDE | ESP32 (basic) | DipTrace (PCB) | NI Multisim | Bambu Studio (3D Printing)
Core Concepts	DSA | Machine Learning | Embedded Systems | Circuit Analysis | System Architecture