**IVY WANJIKU NJUGUNA**  
Executive Partner & Instructor | React Native Developer | Accessibility Advocate  
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 Nairobi, Kenya

**PROFESSIONAL SUMMARY**

Multidisciplinary software developer and tech educator passionate about building inclusive, user-centric applications. Skilled in React Native, Kotlin, and accessibility-first design, with experience in both frontend and mobile development. A dynamic leader and co-founder of a digital literacy initiative focused on disability inclusion. Keen to join an innovative team where I can apply my technical strengths, creativity, and human-first approach to build real-world solutions.

**EXPERIENCE**

**Executive Partner & Instructor**  
**Martial School of IT** — *Jan 2025 – Aug 2025*

* Co-led the transformation of Martial from a tech training school to an inclusive, accessibility-focused edtech organization.
* Designed and taught hands-on courses in Android development (Kotlin), web development, and digital accessibility.
* Built real-world projects with students, including disability-inclusive apps using React Native and Room DB.
* Collaborated on building AI-based learning tools and apps for non-verbal users and students with neurodiversity.
* Handled administrative leadership, partnership acquisition, and internal tech systems setup.

**Junior Software Developer**

**Bata Shoe Company** — *Nairobi, Kenya*  
*May 2024 – Jan 2025*

* Collaborated with the internal dev team to optimize and maintain Bata’s inventory and POS systems.
* Supported migration of legacy systems to modern React-based dashboards for improved performance and user experience.
* Developed and tested modular frontend components using **React.js**, integrated with backend APIs.
* Participated in Agile sprints and contributed to bug fixing, code reviews, and team stand-ups.
* Assisted in implementing a responsive, mobile-friendly UI for staff dashboards used across multiple branches.

**Freelance Software Developer**  
*Remote | Project-based* — *2023 – 2023*

* Designed and built mobile apps for small businesses and social impact projects.
* Specialized in building MVPs, proof-of-concept apps, and accessibility-integrated user interfaces.
* Assisted teams with converting Figma designs into responsive React components.

**PROJECTS**

**NeuroBridge – AI-Powered Brain-Computer Interface**  
*React • Python • Flask • EEGNet • WebSockets • Accessibility APIs*

* Converts simulated EEG brain signals into text, speech, or smart device actions.
* Built using React frontend + Flask backend with real-time classification using CNN (EEGNet).
* Integrated accessibility features: text-to-speech, sign language (GIFs), dyslexia-friendly fonts, and dark/light themes.
* Inclusive by design: supports users with motor disabilities, non-verbal communication, and neurological disorders.

**Finance Aggregator App**  
*React Native • Kotlin • Room DB • Firebase • Accessibility Tools*

* Cross-platform app that displays and stores total balances from M-Pesa, M-Shwari, KCB, Co-op, and more.
* Built custom UI cards in native themes (bank colors), with screen reader support and offline access.
* Features redirect links to loan apps, budgeting tips, and spending summaries.
* Supports visually impaired and dyslexic users with TTS and intuitive UI/UX flow.

**Totes by Ivy – Product Showcase Web App**  
*JavaScript • HTML • Tailwind CSS • Firebase*

* Ecommerce prototype website for selling tote bags with a clean, minimal “girly-tech” vibe.
* Integrated cart system, customer feedback form, and admin dashboard.

**DSA Learner Platform**  
*Python • Flask • SQLite • Bootstrap • Markdown Parser*

* Internal tool for students to learn Data Structures & Algorithms via notes, quizzes, and mini-assignments.
* Allows instructors to upload new challenges and final project tasks for certificate generation.

**Sign-to-Speech Converter (Prototype)**  
*TensorFlow.js • JavaScript • OpenCV • MediaPipe*

* Converts basic sign language gestures into voice output using webcam and custom-trained models.
* Meant to be embedded into communication apps for users with speech impairments.

**TECHNICAL SKILLS**

**Languages & Frameworks:**  
JavaScript (ES6+), TypeScript, React Native, Kotlin, Python, HTML5, CSS3, TailwindCSS, Flask, SQLite, Java.

**Mobile Development:**  
React Native, Android (Kotlin), Firebase, Room Database

**Web Tools:**  
Figma, Git/GitHub, WebSockets, REST APIs, Flask, Firebase Auth

**AI / ML:**  
TensorFlow, EEGNet, Scikit-learn (for signal classification), NumPy, Pandas

**Accessibility Tools:**  
ARIA Roles, WCAG 2.1, Screen Reader Testing, Text-to-Speech APIs, Dyslexia Fonts

**Soft Skills:**  
Community leadership, project coordination, curriculum design, adaptability, fast learning, teaching

**EDUCATION**

**Bachelor of Science in Software Development**  
KCA University — *Graduated 2025*

**CERTIFICATIONS**

* Android Basics – *Google Developers*
* Responsive Web Design – *freeCodeCamp*
* Introduction to React – *Scrimba*
* Introduction to DSA in Python – *Hackerrank*
* Accessibility Fundamentals – *W3C / edX*
* Git & GitHub – *Codecademy*
* Building Inclusive Products – *Microsoft Learn*

**PERSONAL PROJECTS INITIATIVES**

* **Martial School of IT** – Co-founded & led tech-for-accessibility movement
* **Jenga AI** – Helped design an AI learning assistant for neurodiverse learners
* **Neurobridge 2.0** – Building a tech brand focused on inclusive software & mental wellness tools

**OTHER HIGHLIGHTS**

* Delivered a 30-minute tech talk on **Security on Rails** for mixed-audience conference
* Designed UI/UX for a mobile-first mental health app
* Passionate about tech for good, education, and inclusive innovation
* Regularly hosts tech workshops for beginners, women, and people with disabilities

**REFEREES**

**1. Erick Kiplangat**  
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**2. Catherine Gachie**  
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