

# BRIAN OMONDI AYIEKE

## CURRICULUM VITAE

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### PROFESSIONAL PROFILE

Full-stack web developer and AI-driven solutions builder with hands-on experience developing real-world web applications for business operations, pricing automation, machine-learning diagnostics, and service management platforms. Strong proficiency in front-end development, UI/UX implementation, and system integration using modern tools and technologies. Known for delivering functional, user-centric solutions and supporting digital transformation through both development and technical mentorship. Currently volunteering in a community impact technology program while actively building scalable web systems.

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### CORE SKILLS

- Frontend & Full-Stack Web Development (HTML, CSS, JavaScript, React, Node.js)
  - Responsive UI/UX Design | Figma | Webflow | Framer
  - Database & Backend Tools: Firebase, MongoDB, MySQL
  - Machine Learning Model Integration & REST APIs
  - AI Tools: ChatGPT, Midjourney, RunwayML, DALL·E, Canva AI
  - Version Control & Deployment (GitHub, Netlify, Vercel, Firebase Hosting)
  - System & Network Support | Troubleshooting | Agile Collaboration
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## PROJECTS

### OptiPrice - AI-Driven Smart Pricing Calculator

- *AI-powered business tool for pricing strategy optimization*
- Helps businesses maximize profits by using market data and ML-based pricing recommendations.

### CattleDoctor - ML-Based Cattle Disease Diagnosis System

- Predictive cattle disease diagnosis with recommended treatments based on symptom input.
- Random Forest model integrated via Django REST API.

### QuickFold Laundry Services Web App

- <https://quickfoldlaundry-9160e.web.app>
- Service booking, order scheduling, tracking, and automated customer management.

### MaishaBoraNyumbani - Catering & Food School Website

- <https://maishaboranyumbani.com>
- Catering school website, allowing the facility to showcase their services and products.

### House Hunter Jenny - Property Listing & Categorization Platform

- *React, Firebase, Netlify*
- <https://househunterjenny.netlify.app>
- Allows real estate agents to upload and categorize houses, organize properties, and share customized shortlist selections with clients, improving communication and conversion workflow.

### Broshere Financial App - Community Savings Platform

- Digital wallet and savings platform designed to support community financial groups.

### EishConsult - Mental Health Consultation Website

- <https://eishconsult.com>
- Online therapy booking and resource-sharing platform supporting remote wellness services.

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## PROFESSIONAL EXPERIENCE

### Volunteer IT & Digital Literacy Support - Kitengela GK Prison

March 2025 - Present

- Supporting prison digital transformation through system setup, ICT support, and computer training.
  - Training staff and selected inmates in basic web design, digital literacy, and technology for reintegration.
  - Implementing digital record systems improving operational efficiency and secure data handling.
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## **3D LiDAR Annotation Specialist - CloudFactory**

**April 2023 - April 2024**

- Precision Annotation: Deliver high-fidelity 2D/3D labeling (cuboids, semantic segmentation, polylines) for autonomous vehicle perception and drone navigation systems.
  - LiDAR & Sensor Fusion: Expertly align 3D point clouds with 2D imagery to ensure spatial depth accuracy for self-driving and self-piloted AI models.
  - Ground Truth Quality: Identify complex edge cases and maintain 98%+ accuracy in generating ground truth data for safety-critical computer vision.
  - Autonomous Workflows: Support the full AI lifecycle, from data curation to refining labeling ontologies for "detect-and-avoid" (DAA) and obstacle detection.
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## **IT & Data Support Roles (Various)**

**2019 - 2022**

- Sterling College, The Orchard School, Lawrence Obonyo Legal Advocates
  - Delivered web design, software, and ICT training.
  - Managed networks, websites, digital systems, and hardware/software maintenance.
  - Improved user-experience workflows by upgrading digital processes.
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## **EDUCATION**

### **Bachelor of Science in Information Technology**

Meru University of Science and Technology | 2015 - 2019

### **Digital Training Program (Data Analysis, Machine Learning, Software Development)**

CloudFactory (Safaricom Foundation) | Nov 2019

## **Computer Packages Certification (Distinction)**

Hope Computer Training College | Jan - Feb 2015

## **Kenya Certificate of Secondary Education (KCSE)**

Kathiani Boys High School | 2014 - Grade B (Plain)

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## **TOOLS & TECHNOLOGIES**

React | Node.js | Firebase | Django REST | MySQL | MongoDB

Figma | Webflow | Framer | Chrome DevTools

Git | GitHub | Netlify | Firebase Hosting | Vercel

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## **INTERESTS**

Building AI-integrated products | Human-AI collaboration | Tech-for-impact innovation

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## **REFEREES**

Available upon request.

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