

SANDRA OBUNGA ACHIENG'

Full Stack Software Engineer

 Nairobi, Kenya  sandraobunga.com/

Professional Summary

I'm Sandra, a versatile Full Stack Developer with hands-on experience building end-to-end web applications and management systems. Specializing in React, Next.js, Node.js, and RESTful API development with a strong foundation in database design and system architecture. Demonstrated ability to translate business requirements into scalable technical solutions while ensuring optimal user experience across devices. I combine technical expertise with entrepreneurial background to deliver impactful solutions that address real-world challenges.

Professional Experience

Social Economic and Empowerment Attaché, Beacon of Hope Africa	06/2022 – 08/2022
- Managed data entry in the CPMIS system, maintaining accurate digital records for over 40,000 Orphaned and Vulnerable Children - Developed and implemented digital tracking systems for lending and savings groups, improving efficiency by 30% - Conducted technical training sessions for 200+ community members in Kibra on digital financial tracking - Applied data analysis techniques to monitor and report on community financial program outcomes	Nairobi, Kenya

Education

Software Engineering Training, ALX	2023 – 2024
Front-end Website Development Certification, Meta (Coursera)	2023 – 2024
Bachelor of Science in Entrepreneurship, Co-operative University of Kenya	2019 – 2023
Computer Packages Certification, Kenya Medical Training College (KMTTC)	2018 – 2019

Technical Skills

Frontend Development React.js, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, Responsive Design	Backend Development Node.js, Express.js, RESTful API Development, JWT Authentication, Session Management
Database Management MySQL, MongoDB, Database Design, Data Modeling, Supa-base.	Development Tools Git, GitHub, VS Code, Postman, XAMPP, Vite, Render
Additional Skills UI/UX Design Principles, Web Accessibility Standards, API Integration, Agile Methodologies, Cross-Browser Testing, Performance Optimization	

Key Projects

Meechum - Intellectual Capital Platform, Full Stack Developer

2024 – 2025

Technologies: Next.js 15, React 19, Supabase, Google Generative AI, OpenAI API, Framer Motion, Tailwind CSS, TypeScript, Radix UI

- Engineered a real-time anonymous thought-sharing platform designed to capture unfiltered intellectual capital without algorithmic manipulation or engagement metrics
- Built "Floats" system with 72-hour content decay mechanism, enabling users to share raw ideas without self-censorship or permanent digital footprint
- Developed "Library" feature allowing users to curate and preserve resonant thoughts into public-facing collections, creating intellectual portfolios
- Implemented real-time data synchronization using Supabase SSR for seamless content streaming across multiple users simultaneously
- Integrated AI-powered content moderation and discovery features using Google Generative AI and OpenAI APIs
- Created "Resonance" system enabling private, consent-based conversations between creators and readers without public performance pressure
- Designed responsive, accessible UI with Framer Motion animations and Radix UI components for optimal user experience
- Implemented RSS feed generation for shareable, curated intellectual content streams
- Impact: Built a utility for discovery that prioritizes signal over noise, authenticity over performance, enabling merit-based idea evaluation

HaloWash - Laundry Service Platform, Full Stack Developer

2023 – 2024

Technologies: React, Next.js, Express.js, Node.js, EmailJS, Tailwind CSS, MongoDB

- Built a full-stack web application for laundry service business operations using modern JavaScript frameworks
- Implemented responsive frontend with service information, booking system, and customer engagement features
- Developed RESTful APIs for handling customer inquiries, service requests, and newsletter subscription management
- Created secure database structure for storing and managing customer and service data

PFN FARMERS, Full Stack Developer

2025

Technologies: Next.js, Resend, Express.js, MySQL, Tailwind CSS, Host Pinnacle, JWT Authentication

- Developed a comprehensive web platform for Perennial Farmers Network, empowering African farmers and fishers with access to grants, training, and market opportunities
- Engineered user-friendly interface showcasing three core programs: Agriculture Funding (grants up to USD 50,000), Fishing Program (equipment financing and marine insurance), and Training & Development (workshops and certifications)
- Implemented fully functional contact management system using Resend API, enabling seamless communication between farmers and the organization across Africa
- Built responsive, accessible UI/UX design with Tailwind CSS, ensuring optimal experience across devices for users in rural and urban areas
- Created dynamic content sections displaying program eligibility, application processes, and farmer success stories

Additional Skills

- Agile/Scrum Development Methodologies
- Mobile Responsive Implementation
- API Documentation
- Cross-Browser Compatibility Testing
- Web Performance Optimization
- Version Control Systems

Languages

English

Fluent

Kiswahili

Fluent

References

Available upon request

For detailed project documentation, code samples, and case studies, visit my online portfolio at:
<https://sandraobunga.com/>