


SANDRA OBUNGA ACHIENG'

Full Stack Software Engineer

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 LinkedIn |  Portfolio: <https://sandraobunga.vercel.app/>

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.

💡 View my live projects and technical case studies at: <https://sandraobunga.vercel.app/>

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, Supabase.

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 (meechum.com) | 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

PFN FARMERS (pfnfarmers.org) | 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

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

PROFESSIONAL EXPERIENCE

Social Economic and Empowerment Attaché

Beacon of Hope Africa | Nairobi, Kenya | June 2022 - August 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

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 (KMTC) | 2018-2019

ADDITIONAL SKILLS

Agile/Scrum Development Methodologies

Cross-Browser Compatibility Testing

Mobile Responsive Implementation

Web Performance Optimization

API Documentation

Version Control Systems


LANGUAGES

English - Fluent

Kiswahili – Fluent

REFERENCES

Available upon request

 For detailed project documentation, code samples, and case studies, visit:

<https://sandraobunga.vercel.app/>