

CHISOM WORLU

Software Engineer | Frontend, Backend & AI

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PROFESSIONAL SUMMARY

Software Engineer building production web and AI systems across frontend, backend, and LLM products. Sole frontend engineer at Tracmedy, a healthcare startup, owning the full client from the patient web app to the admin dashboard: telemedicine, care episode workflows, payments, and AI-assisted clinical insights. Founder of vWorka, a job marketplace for blue and grey-collar workers that reached 300 users as a solo build and is now relaunching as a mobile app. Built ClauseGuard, a multi-agent RAG system for contract risk analysis. Proficient in Python, FastAPI, TypeScript, React, and PostgreSQL.

TECHNICAL SKILLS

- **Languages:** Python, TypeScript, JavaScript (ES6+), SQL, HTML5, CSS3
- **AI & LLM:** RAG, Multi-Agent Systems, Hybrid Search, Cross-Encoder Reranking, ChromaDB, LLM Fine-Tuning, OpenAI API
- **Backend & Databases:** FastAPI, REST APIs, PostgreSQL, SQLAlchemy, Pydantic, Supabase (Auth, RLS), Firebase, OAuth 2.0
- **Frontend:** React, Next.js, Tailwind CSS, shadcn/ui, Responsive Design, TanStack Query, Zustand, Redux Toolkit
- **Integrations:** Meta WhatsApp Business Cloud API, Stream Video SDK, Paystack, Payment Integration
- **DevOps & Testing:** Git, GitHub, GitHub Actions CI/CD, Vercel, Railway, Jest, React Testing Library
- **Performance & SEO:** Core Web Vitals, Lighthouse, SEO Optimization, Google Analytics, PostHog

EXPERIENCE

Frontend Engineer | Tracmedy | Remote | May 2026 - Present

Sole frontend engineer for a healthcare care-coordination platform connecting clinicians, hospitals, and patients.

- Built the entire frontend, from the web client to the admin dashboard, including token-based auth and role/permission guards.
- Integrated Stream Video SDK for end-to-end telemedicine and built care episode management with recovery tracking, care plans, and threshold-based clinical alerts.
- Integrated AI-generated clinical insights and payment flows into the platform alongside the backend team.
- Optimized performance and scalability for thousands of hospitals, reaching a 95 Lighthouse performance and 100 SEO score.

Founder & Software Engineer | vWorka | Lagos, Nigeria | March 2026 - Present

Solo-built a live WhatsApp-first AI recruitment platform for blue and grey-collar hiring in Nigeria (300 users, 248 jobs posted); now building the mobile app launching December 2026. Stack: Next.js, TypeScript, FastAPI, Supabase, OpenAI API, WhatsApp Cloud API, Paystack.

- Led a full V1 rebuild of an already-live product against real user data with a zero-downtime requirement.
- Audited Row Level Security policies in production, closed a critical data-exposure gap affecting worker/employer PII, and resolved a resulting infinite-recursion bug using a SECURITY DEFINER function.
- Built an AI-powered natural-language job posting pipeline (OpenAI) parsing WhatsApp messages into structured data across a 27-category taxonomy, and used user feedback to define the scope of the mobile relaunch.

Frontend Developer (Freelance) | Rudratek | Bengaluru, India | Feb 2026 - Apr 2026

- Delivered production-ready Next.js 15 features with 100% design accuracy from Figma; optimized Core Web Vitals and integrated RESTful APIs.

FEATURED PROJECTS

ClauseGuard | Python, FastAPI, ChromaDB, PostgreSQL, Next.js | Multi-Agent RAG | clauseguard-tawny.vercel.app

- Contract risk-flagging system: 4-agent pipeline with hybrid search and cross-encoder reranking over ChromaDB.
- PostgreSQL audit trail for every analysis, a fine-tuned open-source model benchmarked against a frontier model, CI/CD pipeline, and IP-based rate limiting.

TrendBoard AI | React, Firebase, OpenAI API, Recharts, TypeScript | trend-board-ai.vercel.app

- Cache-first financial dashboard with near-instant API response, AI-driven visualizations, and sentiment analysis.

News Summarizer | Redux Toolkit, Supabase Edge, OpenAI, PostgreSQL | news-summarizer-hazel.vercel.app

- AI-powered news platform cutting reading time by 50%; refactored to Redux Toolkit for high-frequency updates.

EDUCATION & CERTIFICATIONS

The Engineer Network Bootcamp (2025) | Chymall IT Certificate (2021-2024)

Certifications: React Frameworks, JavaScript Modern Essentials, Tailwind CSS Mastery (Udemy, 2025)