

FRANK DONALD KAMGA FONTCHA

SENIOR FULL STACK DEVELOPER | LEAD SOFTWARE ENGINEER

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PROFILE

Senior Full Stack Developer and Lead Software Engineer with 8+ years of experience architecting high-concurrency web, mobile, and real-time streaming platforms. Proven track record leading engineering teams in Dubai, scaling systems to 500,000+ users, and deploying production distributed backends (.NET/Node.js) and applied AI/RAG solutions.

CORE TECHNOLOGIES

Backend & Systems Architecture: ASP.NET Core, Node.js, NestJS, PHP/CakePHP, Django, FastAPI, REST, GraphQL, WebSocket, RabbitMQ, Hangfire, Microservices, WebRTC, SFU, Real-Time Systems, System Design

Frontend & Mobile: Next.js, React, React Native, Ionic, Angular, HTML, CSS, jQuery

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis

Cloud, DevOps & CI/CD: Docker, Kubernetes, ArgoCD, Bitbucket Pipelines, GitHub Actions, Azure CI/CD Pipelines, Vercel, Expo EAS, Nginx, OVH, VPS, TURN/STUN, Grafana, Sentry, SonarQube

Applied AI & Machine Learning: RAG, Ollama, Hugging Face Transformers, QLoRA/LoRA, PEFT

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer / Lead Software Engineer

LMNTO Performance Information Technology L.L.C. | 4 years 5 months | May 2022 – Present | Dubai, UAE

- Progressed from Frontend Developer through Full Stack Developer to Lead Software Engineer, directing architecture, technical planning, and delivery for a team of 4 engineers.
- Spearheaded the architecture and modernization of Homnifi, transitioning the platform from outsourced development to fully in-house engineering for over 500,000 active users.
- Re-engineered core infrastructure by optimizing Docker worker clusters, indexing PostgreSQL/MongoDB databases, and refining Redis caching strategies to eliminate platform bottlenecks.
- Designed and deployed asynchronous backend message queues, removing brittle third-party API dependencies and significantly improving system resilience and throughput.
- Architected reward engines, momentum challenges, and Web3 non-custodial wallet deposit/withdrawal mechanisms for NodeLink, HUBLINK, and HorysTech.
- Managed automated CI/CD and deployment lifecycles across Docker, Kubernetes, and ArgoCD, maintaining platform uptime monitoring via Grafana and Sentry.

Independent Software Consultant / Contract Developer

UAE Client Engagements (Four and Square, Afro Holdings LTD, VMeals) | Nov 2021 – May 2022

- Built cross-platform mobile gameplay interfaces using React, Ionic, and Expo, coordinating release pipelines via Google Play Console tracks.
- Architected and delivered a full-stack real-estate portal pairing a headless WordPress API with a Next.js/Ionic mobile and web frontend.
- Integrated multi-provider online payment gateways and custom checkout flows for local e-commerce operations.

Full Stack Developer / Team Lead / Analyst

KTJC | 2 years 7 months | Mar 2019 – Sep 2021 | Bafoussam, Cameroon Remote

- Delivered full-stack web applications and contributed to software architecture, database administration and VPS configuration.
- Developed and maintained frontend/backend functionality and participated in solution analysis and deployment architecture.
- Planned and coordinated development tasks while supporting technical delivery and production troubleshooting.

Lead Full Stack Developer / Web & Mobile Developer

Hello Docteur | 1 year 5 months | Apr 2020 – Aug 2021 | Bafoussam, Cameroon Remote Part-time

- Built medical video-consultation mobile applications and an accompanying blog/news website.
- Worked with Angular 9, Ionic, Bootstrap, MySQL, VPS/Plesk, Node.js, WebSocket, PeerJS, WebRTC, Express and STUN/TURN.
- Implemented real-time communication and video-consultation functionality for the medical platform.

Information Technology Web Developer

EREC Cameroon | 1 year 3 months | Dec 2017 – Feb 2019 | Bafoussam, Cameroon Part-time

- Provided IT consulting and local network administration, including wired/Wi-Fi network setup and computer, printer and scanner configuration.
- Developed and maintained websites using CodeIgniter, HTML, CSS and jQuery.

PROJECTS

MboaMeet — Social Discovery & Creator Platform | <https://mboameet.com>

- Architected a React Native / Expo mobile platform with E2E-encrypted messaging and real-time audio/video communication using WebRTC and SFU architecture.
- Built scalable backend services with ASP.NET Core, PostgreSQL, MongoDB, Redis, RabbitMQ, SignalR, GraphQL/REST and Stripe.
- Implemented creator monetization, private channels and real-time communication infrastructure.

Pro E-Farmer — AI-Powered Livestock Management & Social Commerce | <https://e-farmer.app>

- AI-powered livestock management and social commerce platform with 5,000+ downloads and 2,000+ active users on Google Play.
- Features farm management, analytics, marketplace, veterinary services and RAG-based AI assistance.
- Built offline-first RAG capabilities using ChromaDB, sentence-transformers and Ollama, with QLoRA/PEFT model fine-tuning.

EDUCATION

Bachelor's Degree in Software Engineering

African Institute of Informatics (IAI-Cameroon) | 2014–2017

Three-year program focused on software analysis, project management, software design and development.

CERTIFICATIONS

Full Stack Engineer Certificate | Pro5.ai | Issued Jun 2024

Developing ASP.NET MVC Web Applications | Udemy | Issued Feb 2023

LANGUAGES

French — Native | English — Professional working proficiency