Nkululeko Frank Mosehla | Mid-Senior React Engineer

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PROFILE

Mid-Senior React Engineer, AI-Powered Product Engineer & UI/UX Designer with 4 years of experience building high-performance web and mobile applications. Specialized in React, Next.js, React Native, with expertise in AI-powered applications and agent systems. Focused on building scalable product from concept to production with emphasis on performance, user experience, and security.

PROFESSIONAL EXPERIENCE

Facilitator Intern at MLAB
07/2025 – 01/2026
Polokwane

Trained and mentored developers in TypeScript, React, Express, React Native + Expo, UI/UX design, and modern web development practices at CodeTribe.

Software Developer - Trainee at MLAB
07/2024 – 12/2024
Polokwane

- Contributed to multiple web and mobile projects using TypeScript, React + Expo, React Native, Node.js, and MongoDB.
- Led UI/UX improvements on internal UX Committee, enhanced onboarding flow and user engagement.
- Awarded Best CodeTriber for code quality, teamwork, and consistent delivery.

Frontend Engineer - Freelancer
01/2024 – 06/2025
Emalahleni

TagProjects is a South African software company specializing in web and mobile application development. Developed scalable, secure applications for clients, focusing on performance, maintainability, exceptional user experience, and AI-powered features.

SKILLS

Web and Mobile Development | UI/UX Design
Languages: TypeScript, JavaScript, Node.js

Frontend: React, Next.js, Svelte/SvelteKit, Redux, Tailwind CSS, shadcn/ui

Mobile: React Native, Expo

Backend & APIs: Node.js, Express.js, RESTful APIs, serverless functions

Databases: PostgreSQL, MongoDB, Supabase, Firebase

AI & Automation: Vercel AI SDK, Mastra, AI agent development, LLM integration

Tools & Infrastructure: Git, GitHub, Vercel, CI/CD pipelines, Docker

Design: Figma, UI/UX design, responsive layouts, design systems

AWARDS

Telkom Learn Hackathon - 1st Place
04/09/2024

Built WELI, an AI-powered web application designed to bridge the digital divide using intelligent agent systems to improve digital accessibility and education.

GeekKulcha Annual Hackathon - 3rd Place   06/10/2024
Developed a web application integrated with Thuso, a physical robot designed to
enhance safety and navigation for visually impaired individuals through real-time
communication

1st Place, Telkom 10x Hackathon   14/09/2025
Geekulcha and Telkom Future makers
Developed smart shelf inventory system with IoT sensors, cameras, and real-time
web dashboard using Next.js and WebSockets for live tracking and automated alerts.

PROJECTS

LuminaLab – AI Business Idea Validation Platform
- Dual AI debate agents (Paradox & Glitch) analyze startup ideas in real-time.
- Built with Next.js, Vercel AI SDK, Supabase, and Clerk subscription billing
- Implemented token optimization for cost-efficient AI agent interactions

Timesheet Management System
- QR code scanning + geo-fencing for attendance validation using React Native and Expo
- Built facilitator dashboard with Next.js and Supabase for real-time tracking
- Deployed for CodeTribe trainee management to prevent time theft and ensure accuracy