

KYLE NEL

SOFTWARE DEVELOPER

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Professional Summary

Experienced Full-stack software developer specializing in systems design and maintenance. Experienced in developing scalable web and enterprise solutions, including fleet management platforms, GPS and camera integrations as well as internal business tools. I have a strong focus on performance, reliability and clean architecture with a practical end-to-end ownership mindset shaped by real-world systems.

Professional Experience

Software Developer – ICAM Video Telematics

2024 – Present

- Architecting and developing an enterprise-grade asset management and operations system using C# and PostgreSQL.
- Designed and built multiple middleware APIs and backend services integrating GPS tracking platforms, camera systems, and third-party services, handling data ingestion, normalization, and synchronization across fleet, vehicle, driver, and event data.
- Developed scalable REST APIs using Node.js and .NET with PostgreSQL-backed data models and role-based access control, including the Driver Tag Program to improve driver identification, data accuracy, and reporting reliability.
- Designed and implemented a custom CMS / ERP-style system (in progress) to manage internal operations such as users, vehicles, drivers, products, and invoices, with modern admin dashboards built using React and TailwindCSS.
- Implemented secure authentication and configuration management, built reporting and analytics tools (CSV/Excel exports, historical snapshots, trend analysis), and took end-to-end ownership of systems including deployments, Linux/Windows server management, production support, and optimization.

Software Developer – Afrisist – *Vehicle Alarm Monitoring Dashboard*

2025 – Limited Duration Project

- Developed a modern React + Node.js + Supabase(self-hosted) web application alongside a colleague for real-time vehicle alarm handling, using cron jobs, webhooks, and Supabase real-time events for user assignment automation and status updates.
- Designed an intuitive UI/UX with animated dashboards, live data streams, and modular backend APIs for scalability.

Skillance – Skillance

2026– present

- Marketplace platform connecting customers with local service providers across 13+ categories (automotive, cleaning, computer services, education, fitness, gardening, handyman, music, photography, videography, etc.)
- Location-based search using PostGIS for proximity matching within service radius
- Booking system with real-time availability, scheduling, and session verification
- In-app messaging with content filtering and moderation
- Payment integration via Walletdoc for secure transactions
- Admin dashboard with analytics, user management, security monitoring, and verification workflows
- Security features including geo-blocking, rate limiting, automated threat detection, and audit logging
- Tech stack: Fastify (Node.js/TypeScript) backend, React frontend, PostgreSQL with PostGIS, Redis caching, Firebase authentication, AWS S3 storage.
- Co-Founder (www.skillance.co.za)

Education

- Passed 18 of 20 completed modules with distinctions.

Core Technical Skills

Languages: HTML, CSS, JavaScript, TypeScript, C#, Java, Kotlin, SQL, Dart

Frameworks & Tools: React, Node.js, Express, .NET Core, Tailwind CSS, Docker, Azure, AWS, Supabase, Linux Server, Flutter

Databases: PostgreSQL, SQL Server, Firebase

Other: Git, RESTful API Design, DaisyUI, ShadCN.