

Justin Joseph

Enterprise Platform Modernization Engineer

Email: justin@kernelworks.site | LinkedIn: <https://www.linkedin.com/in/justin-devs/> | Pretoria, South Africa | SAST (UTC+2)

Summary

Enterprise-focused engineer specializing in platform modernization, multi-tenant identity architecture, concurrency correctness, and cloud cost optimization.

Core Proof Metrics

- Modernized a ~700k LOC legacy platform from .NET 4 to .NET 8.
- Replaced file-based tenancy with Keycloak for multi-tenant, multi-site identity management.
- Removed concurrency hazards caused by lock contention and async/sync race conditions.
- Reduced Azure spend from approximately \$7,800/month to approximately \$2,400/month.
- Improved production behavior in enterprise energy and rail delivery contexts.

Experience

Claer & Volker - CTO

Subcontract engagement supporting Aladon delivery

- Led enterprise modernization delivery across runtime migration, identity architecture, and platform hardening.
- Designed and delivered multi-tenant identity and tenant lifecycle changes via Keycloak.
- Stabilized authentication/licensing flow and concurrency-heavy execution paths.
- Rationalized Azure footprint for significant recurring cost reduction.

Selected Projects

- ACTOR (Aladon): enterprise platform modernization and infrastructure rationalization.
- Shopify Performance Stabilization: conversion-linked performance optimization.
- Onsite ANPR Reliability: edge runtime stabilization and deployment safety.
- Abantu Loyalty App: mobile loyalty delivery with Flutter/React Native and Firebase.

Capabilities

Primary: .NET 8, Blazor Server, EF Core, Multi-tenant architecture, Keycloak, Concurrency correctness, Azure Web Apps/SQL/VMs, Cost optimization.

Secondary: Linux (Debian/Ubuntu), WireGuard, SSRS, Shopify performance, Flutter, React Native, Firebase, cPanel, WHMCS, DNS, SSL, PayFast, Ozow, Supabase, PocketBase, Budibase.