

TIRELO DAVID OABILE

PRINCIPAL SOFTWARE ENGINEER | SOFTWARE / SOLUTION ARCHITECT

Australian Citizen | Contract / Consulting | Flexible on location

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GOVERNMENT CONTRACT FOCUS: Australian citizen; available to pursue roles requiring eligibility to obtain an Australian Government security clearance.

PROFILE

Principal-level hands-on engineer and software architect with 17+ years of experience designing, modernising and operating business-critical systems across retail, eCommerce, POS, healthcare, finance, cloud and data platforms. Strong background in secure API and integration architecture, distributed and event-driven systems, cloud infrastructure, data protection, platform modernisation and production reliability. Experienced in regulated environments and in translating operational requirements into maintainable, auditable technical solutions. Comfortable operating as an individual contributor, technical lead or architecture authority.

SELECTED DELIVERY OUTCOMES

140+ retail locations / ~14,000 SKUs per store

Architecture spanning POS, eCommerce, inventory and integrations.

>99.9% availability

Order and inventory services maintained through peak trading periods.

Millions of API requests / <120 ms P95

Designed for scale, latency isolation and high-traffic production operation.

~60–70% fewer failure incidents

Reduced synchronous dependencies using event-driven processing.

CORE CAPABILITIES

- Solution & software architecture
- Cloud architecture: AWS & Azure
- Relational & non-relational data design
- Technical leadership & engineering standards
- Secure API & integration architecture
- Identity, access control & data protection
- Reliability, performance & cost optimisation
- Agile/Scrum delivery & stakeholder collaboration
- Platform modernisation & legacy migration
- Event-driven & distributed systems
- CI/CD, Linux & production operations
- AI-assisted engineering & data workflows

TECHNICAL ENVIRONMENT

Languages: TypeScript / JavaScript, Node.js, Go, Python, PHP, Rust, C#, SQL

Cloud & Infrastructure: AWS Lambda, API Gateway, EC2, SQS, VPC, IAM; Azure; Cloudflare Workers/Queues; Docker; Kubernetes; Linux

Data & Messaging: PostgreSQL, SQL Server / MSSQL, MySQL, MongoDB, Redis, Kafka

Architecture & Delivery: REST, GraphQL, event-driven architecture, serverless, distributed systems, CI/CD, Git, Agile/Scrum

Security: Encryption at rest/in transit, RBAC/access control, auditability, data boundaries, API security, OWASP-oriented hardening

PROFESSIONAL EXPERIENCE

Nutrition Warehouse

Nov 2016 – Present

Software Architect / Principal Engineer | Part-time, 4 days/week

- Architecture owner for eCommerce, POS, inventory and integration platforms supporting 140+ retail locations and approximately 14,000 SKUs per store.
- Designed and implemented REST and GraphQL APIs for order fulfilment, inventory management, POS reconciliation and third-party integrations.
- Architected systems handling millions of daily API requests; reduced core API P95 latency to below 120 ms and maintained >99.9% availability for critical order and inventory workflows.
- Reduced failure-related incidents by approximately 60–70% by decoupling webhooks, stock updates and POS events with AWS SQS and asynchronous processing.

- Built high-throughput inventory synchronisation services and introduced failure-aware patterns including request isolation, backpressure and graceful degradation.
- Delivered headless and serverless architectures across AWS, Cloudflare, Vercel, Contentful and Shopify while modernising legacy Magento integrations without service disruption.
- Defined API contracts, integration standards and engineering approaches; collaborated with product and operations in Agile/Scrum delivery.

FordHealth Pty Ltd

2024 – 2025

Software Architect & Systems Engineer

- Owned architecture for a greenfield healthcare platform with responsibility for sensitive-data protection, system migration and compliance-oriented design.
- Integrated application services with Azure authentication and SharePoint-based patient records, including secure document upload and retrieval workflows.
- Designed encryption models for sensitive healthcare information at rest and in transit, with strict access control, auditability and data-boundary enforcement.
- Led migration and redesign work across C#/PHP and SQL-based systems, improving maintainability and deployment simplicity.

Sigmar Pty Ltd

2022 – 2025

Software Architect & Systems Engineer | Part-time

- Designed greenfield financial, data-intensive and distributed systems, including backend APIs on hardened Linux environments.
- Developed PostgreSQL extensions in Rust and financial/analytical pipelines using Python and Rust.
- Implemented Kafka-based high-throughput messaging, structured logging and monitoring, cryptographic signing using SHA-256/ED25519 and Protocol Buffers.
- Built security-sensitive platform capabilities including encrypted customer data, wallets, tokens and private-ledger components.

Skin02 Pty Ltd

2021–2022, 2025

Software Architect & Integration Engineer | Contract, 6 months total

- Integrated Shopify with MYOB Exo across orders, customers, products and stock.
- Designed reliable synchronisation pipelines using MongoDB and Node.js services, with SQL Server/MSSQL optimisation to reduce database load.

Follow Agency

Jan 2015 – Dec 2015

Senior Web Developer / Technical Lead

- Delivered Magento architecture, custom integrations and security hardening for medium-to-large eCommerce deployments.
- Led and reviewed offshore engineering work; performed OWASP-oriented security reviews and server hardening; contributed to Android/iOS system architecture.

SELECTED PRODUCT & ENGINEERING WORK

Profit Guard / HTQL — Designed and built a financial intelligence platform for Shopify merchants and its domain-specific financial/eCommerce query engine, with emphasis on correctness, auditability, analytics and extensibility.

AI-assisted engineering — Uses structured AI-assisted workflows for analysis, specification and engineering productivity while retaining explicit architectural, security and testing controls.

EDUCATION & CERTIFICATIONS

- Master of Finance and Banking — Edith Cowan University
- Bachelor of Information Technology — Central Queensland University
- Certificate in Business Blockchain — Linux Foundation
- Transaction SQL (SQL Server 2000) — New Horizons Learning Centre

ENGAGEMENT

Target engagements: Australian Government and government-adjacent technology contracts; Principal/Senior Software Engineer; Software/Solution Architect; Technical Lead; Integration/Platform Modernisation.

Commercial availability: Also open to private-sector contract and consulting engagements where hands-on architecture, modernisation, integration or complex software delivery is required.

REFEREES

Available on request.