Tim Nightingale | Analytics Architect

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Professional Summary

Seasoned Analytics Architect and Data Leader with over 25 years' experience translating raw data into actionable insight and measurable business value across sectors including enterprise, government, healthcare, and retail.

I specialises in building data-driven cultures, managing high-performing teams, and architecting secure, scalable BI and analytics solutions. Adept at cloud platform integration, KPI harmonization, and project delivery in regulated environments.

Renowned for championing data governance, operational efficiency, and innovative analytics—bridging the gap between leadership vision and technical execution. Passionate about mentoring, continuous learning, and using data for social impact and business growth.

Skills

Data & Analytics: Data modelling (conceptual/logical/physical), ETL, data warehousing, dashboard design, KPI standardisation, advanced analytics

Cloud & BI Tools: Azure, AWS, Google Cloud Platform, Snowflake, Databricks, SAP BusinessObjects, Tableau, Microsoft Power BI, Grafana

Programming & Tech: Python, C, NodeJS, React, n8n, OBS, IoT (LoRaWAN, sensors, MQTT, Apache Kafka), database administration (SQL/NoSQL: MongoDB, MySQL, Oracle)

Process & Governance: Agile delivery, stakeholder management, GDPR/GxP compliance, systems integration, requirements gathering, change management, UAT, documentation/training

Leadership: Cross-functional team leadership, project management, training delivery, public speaking, mentoring, volunteer management

Selected Project Highlights

BI Competency Centre (Life Sciences, 86,000+ users): Led the design, deployment, and audit-ready governance for a global SAP analytics hub; set best practice standards for KPI alignment and role-based security.

Executive Analytics Hubs (Plant Manufacturing, Aerospace, Government): Developed custom, interactive executive dashboards (touch-screen, voice-enabled, KPI consolidation), optimizing real-time decision-making and performance oversight for C-level stakeholders.

SAP BusinessObjects Global Migrations: Engineered migration playbooks and led global migration teams, directly training consultants worldwide; delivered process innovation and knowledge-sharing at international conferences.

IoT & Advanced Data Solutions: Built IoT analytics pipelines (e.g., LoRaWAN farm monitoring), created privacy-enhancing 'Decoy Data' workflows, and developed bespoke data compression and encoding for efficient communications.

Operational Efficiency (Hospitality/Early Career): Advanced to analytics head office post, delivering operational and financial improvements across 22 venues; awarded for performance and leadership.

Professional Experience

Aug 2023 – Oct 2025

Analytics Architect   *Kern Analytics*
- Designs and implements integrated IoT data solutions and privacy-enhancing analytics across industries.
- Drives innovation in data encoding, compression, and sensor analytics for reliable, low-overhead communications.

Nov 2022 – Jul 2023

Senior Engineering Lead *Capgemini UK*

- Led technical delivery for high-profile government analytical product.
- Managed cross-site teams, oversaw project resource allocation, budget, and reporting; mentored junior engineers.

Sep 2015 – Oct 2022

BI Principal Consultant *Mindtree UK*

- Deployed SAP Analytics Cloud, championed data-driven strategies, led presales, and implemented voice-assisted dashboards for executive use.

Jan 2000 – Jul 2015

Solution Architect *SAP UK*

- Led BI projects from ETL to dashboard delivery, facilitated global migrations, and supported product development discussions.
- Delivered expert training, documentation, and support for international rollouts.

Pre-2000

Various Roles *Early Career*

- Progressed through hospitality/retail management, culminating in analytics leadership; recognised nationally for operational excellence and team leadership.

Education & Certifications

A Level: Computer Studies

Certifications: SAP Certified Professional (with contributions to exam development)

Various advanced courses: Snowflake, Databricks, Azure, cloud and analytics upskilling (online learning, hands-on experimentation)

Interests & Volunteering

Community: Volunteer manager and rota organiser at local theatre (team leadership, event management, customer service)

Tech & Learning:: PCB design, IoT, electronics, cyber security, digital art/laser engraving, business management, lock picking, puzzle-solving, and photography (infra-red, stereoscopic)

Outdoors & Family: Orienteering, nature walks, supporting children's learning/adventure, cooking, arts and crafts.

References

Available on request.