Tim Nightingale

✉ 1timnightingale@gmail.com • 🌐 techntrek.co.uk • in 1timnightingale

Analytics Architect and Data Leader translating raw data into actionable insight and measurable business value across enterprise, government, healthcare, and retail. I specialise in building data-driven cultures, leading high-performing teams, and architecting secure, scalable BI and analytics in regulated environments—integrating cloud platforms, harmonising KPIs, and delivering with rigour.

Known for absolute data accuracy (checksums, audit-ready logging, quarantine workflows), board-ready analytics hubs, and pragmatic IoT solutions from edge to cloud (including LoRaWAN). I bridge leadership vision and technical execution, driving operational efficiency and business outcomes while mentoring teams and championing continuous learning.

Why Hire Me? / Differences I Have Made

- Built and governed a global SAP analytics hub for a Life Sciences enterprise (86,000+ users), establishing audit-ready controls, KPI alignment standards, and role-based security that scaled without surprises.

- Designed executive analytics hubs across Plant Manufacturing, Aerospace, and Government - touch-screen and voice-enabled dashboards with consolidated KPIs - accelerating real-time decision-making for C-suite stakeholders.

- Led SAP BusinessObjects global migrations: authored repeatable playbooks, ran international migration teams, trained consultants worldwide, and shared process innovations at industry conferences to raise the bar beyond BAU.

- Engineered IoT analytics pipelines end-to-end (e.g., LoRaWAN farm monitoring), implemented privacy-enhancing Decoy Data workflows, and created bespoke compression/encoding to cut bandwidth and cost while keeping signal fidelity.

- Drove operational and financial improvements across 22 hospitality venues early in career; promoted to analytics head-office role and recognised for performance, efficiency gains, and pragmatic leadership.

Professional Experience

Kern Analytics

Analytics Architect   *Aug 2023 - Oct 2025*

- Designed and delivered integrated IoT data solutions and privacy-enhancing analytics across sectors, combining edge capture with cloud pipelines for resilient, low-touch operations.

- Advanced bespoke encoding and compression for sensor streams to reduce overhead while preserving signal fidelity; improved reliability of telemetry under constrained bandwidth.

- Implemented governance guardrails, audit-ready logging, and quarantine workflows to uphold absolute data accuracy across ingestion and analytics layers.

Capgemini UK

Senior Engineering Lead   *Nov 2022 - Jul 2023*

- Led technical delivery of a high-profile government analytical product from design through release, aligning architecture decisions with security and performance requirements.

- Orchestrated cross-site teams, resource planning, budget and reporting; mentored engineers to raise delivery discipline and accelerate feature throughput.

- Established repeatable build/test practices and acceptance criteria to de-risk releases and improve stakeholder confidence.

Mindtree UK

BI Principal Consultant   *Sep 2015 - Oct 2022*

- Implemented SAP Analytics Cloud at enterprise scale, championing data-driven strategies and presales solutioning for executive decision support.

- Built voice-assisted, touch-friendly dashboards for C-suite use, consolidating KPIs and streamlining access to real-time operational context.

- Shaped migration and adoption playbooks, enabling smoother transitions from legacy BI while protecting governance and performance.

Earlier Roles

- Solution Architect - SAP UK: Led end-to-end BI programmes from ETL and semantic modelling to executive dashboards; hardened role-based security and data quality controls.

- Drove global BusinessObjects migrations and partnered with product teams on deployment standards; delivered training and documentation for international rollouts.

Skills, Education & Certifications

- **Data & Analytics:** Data modelling; ETL; warehousing; dashboard design; KPI standardisation; advanced analytics

- **Cloud & BI:** Azure; AWS; GCP; Snowflake; Databricks; SAP BusinessObjects; Tableau; Power BI; Grafana

- **Programming & Tech:** Python; C; Node.js; React; n8n; OBS; IoT (LoRaWAN; sensors; MQTT; Kafka); SQL/NoSQL (MongoDB; MySQL; Oracle)

- **Process & Governance:** Agile delivery; stakeholder management; GDPR/GxP; systems integration; requirements; change management; UAT; documentation/training

- **Leadership:** Cross-functional leadership; project management; training delivery; public speaking; mentoring; volunteer management

- **Education:** A Level - Computer Studies

- **Certifications:** SAP Certified Professional (with contributions to exam development); Snowflake/Databricks/Azure upskilling

Interests & Volunteering

- **Community:** Volunteer manager at local theatre (rota; events; customer service)

- **Tech & Learning:** PCB design; IoT/electronics; cyber security; laser engraving; photography (IR; stereoscopic)

- **Outdoors & Family:** Orienteering; nature walks; cooking; arts and crafts