

Tim Nightingale — Analytics Architect

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Professional Summary

As a seasoned Business Analyst with a passion for transforming data into strategic insights, I specialise in requirements gathering and agile delivery. My expertise spans designing robust data analytics architectures on platforms like SAP, Microsoft Azure, and AWS, always with a focus on aligning solutions to real business needs. I thrive in collaborative, fast-paced environments, drawing on deep experience in systems integration and business intelligence tools such as SAP BusinessObjects, Tableau, and Power BI. My technical toolkit includes Python, C++, NodeJS, and a range of SQL and NoSQL databases, enabling me to craft efficient, scalable solutions that drive organisational growth.

I am committed to continuous learning and enjoy bridging the gap between technology and business, ensuring that every project delivers meaningful, actionable results.

Skills

Cloud Platforms: SAP, Microsoft Azure, Amazon Web Services, Google Cloud Platform

Business Intelligence: SAP BusinessObjects, Tableau, Microsoft Power BI, Grafana

Technologies: LoRaWAN, IoT, Apache kafka, MQTT, OBS

Databases: Snowflake, MongoDB, MySQL, Databricks, Oracle

Programming: Python, C++, NodeJS, n8n, React

Methodologies: Agile, requirements gathering, systems integration, business analysis

Projects

Plant equipment manufacturer:

- Pioneered the development of an interactive, touch-enabled dashboard solution that facilitated in-depth analysis of key service metrics for executive stakeholders during VIP engagements, significantly enhancing the managerial oversight capabilities.
- Facilitated the design and deployment of tailored dashboards for each executive director, leveraging faceted filtering techniques to replace traditional hierarchical data drilling, thereby improving both user experience and informed decision-making processes.
- Strategically integrated a digital voice assistant (Alexa) with an SAP-based dashboard displayed on a substantial 80 sqm 16K screen, resulting in an innovative approach to data access and user interaction, fostering a modernised data culture within the organisation.

Multinational aerospace and defence company:

- Spearheaded the design and deployment of a global dashboard that innovatively transformed 54 KPIs into eight actionable insights, achieved through meticulous data modelling strategies aimed at enhancing user interactivity and system performance.
- Executed comprehensive performance testing strategies that combined automated scripting with real user scenarios, leading to significant performance optimisation by monitoring application responsiveness in tandem with client-side interaction.
- Crafted and rolled out a detailed application security model that complied with stringent export control regulations and user access protocols, facilitating cross-departmental collaboration with suppliers to ensure a smooth implementation process.

SAP/Business Objects - Global Migration Team:

- Engineered and implemented detailed migration protocols, best practices, and instructional resources, which empowered clients to successfully navigate transitions from outdated SAP/Business Objects platforms to the latest technologies, ensuring minimal disruption and maximising operational efficiency.
- Assumed the role of technical lead in a diverse multinational team dedicated to global migrations; provided expert training in migration best practices to consultants in North America, Europe, and Asia, thereby enhancing their skill sets and ensuring project success.
- Actively engaged in promoting knowledge-sharing by delivering impactful presentations at numerous user and partner conferences, while simultaneously ensuring the SAP certification test questions were kept current and relevant in alignment with migration processes.

Multinational healthcare company:

- Established the first BI Competency Centre for a Swiss multinational healthcare company, focusing on SAP Analytics solutions and incorporating best practices for compliance.
- Designed and implemented a customised security model and lifecycle management processes to ensure self-sufficiency and operational efficiency for over 86,000 global users.
- Collaborated with SAP Product Managers to develop and test migration strategies, successfully executing a major system upgrade in four increments, each with minimal downtime.

UK Government Ministry:

- Streamlined the monthly report creation process for UK government ministries by leveraging Web Intelligence, reducing production time from two days to just a few hours.
- Integrated existing Excel data rules into automated report generation, ensuring accurate data representation and incorporating necessary commentary directly within the reports.
- Contributed to the analytics strategy by implementing cloud SaaS applications while ensuring compliance with UK data governance and sovereignty regulations.

Work Experience

Kern Analytics

Analytics Architect

Aug 2023 – present

- Designed and developed integrated solutions utilising advanced technologies such as LoRaWAN and IoT for various sectors.
- Engineered a field-based monitoring system to track the status of farm gates using LoRaWAN communication, ensuring accurate data transmission and device reliability.
- Implemented innovative data encoding and compression techniques for efficient communications in IoT applications, reducing data payload to 56 bytes per message.

Capgemini UK

Senior Engineering Lead

Nov 2022 – Jul 2023

- Led the technical implementation of an innovative analytical product for a UK Government client, coordinating with a diverse team across multiple geographic locations.
- Oversaw project planning, reporting, resource allocation, and budgeting, ensuring alignment with the client's expectations and requirements.
- Provided mentorship to junior engineers on solution design, prototyping, and stakeholder presentations, fostering a culture of innovation and collaboration.

Mindtree UK

BI Principal Consultant

Sep 2015 – Oct 2022

- Led the deployment of SAP Analytics Cloud applications, effectively integrating them into clients' existing BI landscapes and strategy roadmaps.
- Facilitated pre-sales activities, emphasising the critical role of data analytics in achieving client objectives, which drove successful solution delivery.
- Developed and implemented innovative digital voice assistance solutions paired with large-scale dashboards, enhancing user experience and decision-making.

SAP UK

Solution Architect

Jan 2000 – Jul 2015

- Led initiatives on Business Intelligence applications, providing knowledge transfer to clients and internal teams to enhance deployment effectiveness.
- Developed expertise in key technologies including ETL processes, data modelling, and analytics platforms, contributing to improved system performance and reporting capabilities.
- Collaborated in a global team to ensure seamless customer migrations, while actively participating in product management discussions and tool testing.

Early Career

Various Roles

Pre Jan 2000

- Accumulated over 10 years of diverse experience in the hospitality and licensed trade sectors, developing a strong foundation in business management principles and customer service optimisation.
- Demonstrated significant leadership by managing high-turnover venues, earning three prestigious national promotions in recognition of exemplary operational success and team performance.
- Advanced to a Head Office position responsible for data analytics across 22 locations, where I implemented strategic insights that significantly enhanced operational efficiency and profitability.

Education

A Level: Computer Studies

Certifications: SAP Certified Professional

Contributed to SAP certification exam development

Various online learning, including Snowflake

Continuous Learning: Continuously update my skills through online courses, industry research, and hands-on experimentation with emerging technologies in analytics and cloud platforms.

Interests

I am always up for learning something new including: PCB design and fabrication, IoT solutions (sensors, communication & data analysis), lock picking, solving puzzles, graphic design, laser engraving and cutting, business management and e-commerce, LED lighting and electronics, cooking, arts and crafts, cyber security.

I also volunteer at a local community theatre where I help manage rotas, and perform varied roles from duty manager to confectionary seller.

I enjoy the outdoors and am often helping my children understand and respect nature, and how we can learn from it. As a teenager I enjoyed orienteering and still have the navigational sense to know how to get back, letting the children lead the way.

I enjoy photography and should undertake it more often. In the past I have experimented with infra-red and stereoscopic images.