

# Tim Nightingale — Analytics Architect

✉ 1timnightingale@gmail.com • 🌐 1timnightingale.github.io • in 1timnightingale

## Professional Summary

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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

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**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

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### 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**

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### **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

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**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

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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.