



# Luis de Sousa

DATA AND ANALYTICS CONSULTANT

Johannesburg, South Africa

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## Profile

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With 16 years of experience in data and analytics consulting, I specialise in designing and building tailored data solutions for large organisations. My expertise spans data warehousing, integration, analysis, visualisation, and deployment in production environments. Additionally, I excel in leading cross-functional teams in dynamic settings. I firmly believe in the power of technology to drive sustainable change and am passionate about problem-solving and fostering collaboration and transparency. I take pride in finding unique and practical solutions to challenges. Outside work, my interests include reading, exercising (CrossFit and running), dancing, exploring note-taking systems, and co-organising user groups.

## Work

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### Syep

Johannesburg, South Africa

PRINCIPAL CONSULTANT: DATA AND ANALYTICS & DIRECTOR

May, 2007 - Present

- I lead high-impact data and analytics initiatives across diverse sectors such as real estate, food and beverage, and banking. My managerial responsibilities encompass prospecting, negotiating, and overseeing business and project management. Additionally, I contribute to team development by recruiting, training, and mentoring staff. My technical expertise includes market analysis, consolidating financial data on cloud platforms, forecasting, and developing Management Information Systems (MIS) architectures. I have worked with various technologies in these projects, such as the Microsoft Data Platform, MySQL, Google BigQuery, Azure Databricks, and FiveTran. I am proficient in SQL, R, and Python.

### Cyest Corporation

Johannesburg, South Africa

SUPPORT & DEVELOPMENT CONSULTANT

August 2004 - April 2007

- Before DevOps emerged, I served as a deployment automation engineer. I designed, developed, and managed a custom SQL replication framework using SSIS in this capacity. My responsibilities also included overseeing system upgrades, providing technical support, and implementing additional integrations. Throughout these projects, I extensively utilised Microsoft Data Platform and Microsoft BizTalk technologies.

### Artec Computer Systems

Johannesburg, South Africa

IT PROFESSIONAL CONSULTANT

July 2002 - July 2004

- My role involved providing technical support for applications, desktops, networks, and servers primarily in Microsoft environments. This included working with Microsoft technologies such as Windows 98, NT4, 2000, and 2003, as well as MS SQL Server and Exchange in clustered configurations. Beyond Microsoft technologies, I managed Cisco's LAN, WAN, and VOIP systems, worked with Interactive Voice Response (IVR) technologies, and maintained Dell & EMC hardware.

## Consulting Projects

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### Real Estate

DATA CAPACITY SERVICES

2024

- As a senior data consultant, I created data structures that allowed researchers to analyse South Africa's property markets for the CityMark report. I used MSSQL for data management and R for spatial analysis to generate insights across national and metropolitan areas.

### Real Estate

CONSOLIDATED FINANCIAL WAREHOUSE

2023

- As part of a two-person senior consulting team, we created and implemented a unified overview of the company's financial performance across all its entities. We used financial systems like Xero, JDE, and LOB applications. For this project, we employed FiveTran for data integration, BigQuery for data storage and analytics, Looker Studio for data visualisation, and Google Sheets for data sharing and collaboration.

### International Chain

DATABRICKS PROOF OF VALUE

2023

- As a senior consultant in a two-person team, I co-engineered and implemented a Databricks solution in the cloud for both development and production environments. This project involved using technologies such as Azure Databricks, Azure Data Lake Storage Gen2, Azure DevOps, KeyVault, Data Factory, and PowerBI.

Food and Beverage

FORECASTING CAPABILITY BUILDING

2021-2022

- As the project lead and senior consultant on a two-person team, we developed and implemented an automated statistical forecasting system for SKUs within a valuable supply chain. For this initiative, we used R and Microsoft SQL Server.

Banking - Innovation Division

MIS SOLUTIONS ARCHITECTURE

2010-2020

- As the lead and senior consultant for a five-person team in the innovation business unit, I managed all Management Information. My responsibilities included reporting and analytics for various payment systems like domestic and cross-border remittances, e-wallets, mobile payments, and banking transactions conducted via the Internet, apps, ATMs, and USSD. I also oversaw the integration of third-party systems, point-of-sale devices, prepaid services, and transit products. Our efforts extended to regulatory reporting, fraud analytics, sanctions screening, and performance monitoring. We developed, maintained, and updated a data warehouse utilising the Microsoft Data Platform, employing technologies such as Microsoft SQL Server, Integration Services, Analysis Services, Reporting Services, and R.

Entertainment

SOFTWARE PROJECT LEAD

2007-2010

- I played a crucial role in supporting and revamping a royalty calculation engine. This pivotal project involved developing a C# front-end to manage complex financial processes seamlessly integrated with the SAP ERP system. We utilised the Microsoft Data Platform and leveraged Microsoft BizTalk for seamless integration.

Education

Wits

Johannesburg, South Africa

MASTER OF ENGINEERING (MENG) IN SOFTWARE AND INFORMATION ENGINEERING

2015

- Investigation Report: Using agile principles during software procurement in build versus buy decision-making.

Community

Johannesburg R User Group

Johannesburg, South Africa

CO ORGANISER

2018 to current

- This group serves as a platform for sharing knowledge, networking, and promoting the use of R in various statistical, data analysis, and programming endeavors within the Johannesburg area. <https://www.rusergroup.co.za>

PyData Johannesburg

Johannesburg, South Africa

CO ORGANISER

Starting Feb 2023

- This local chapter of an international initiative focuses on nurturing community growth and engagement through Python and data science topics tailored to Johannesburg. <https://www.pydata.co.za>

Open Source

Aerial Mzansi

Johannesburg, South Africa

AUTHOR

2022 to current

- A proof of concept project, open-source, aimed at highlighting the beauty of South Africa. This endeavour utilises various technologies, including Quarto, GitHub Actions, AzureStor, and mapbotverse. <https://www.aerialmzansi.com/>

Accreditation Courses

2024	Talend Data Health Explorer	Talend
2024	Solutions Architect Essentials	Databricks
2023	Generative AI Fundamentals	Databricks
2023	Azure Databricks Platform Architect	Databricks
2023	Databricks Platform Administrator	Databricks
2023	Databricks Lakehouse Fundamentals	Databricks
2019	RStudio Professional Administrator Certification	R Studio
2018	R Software Fundamentals with Applications to Statistical Analyses and Modelling	Wits
2009	Introduction to CMMI V1.2	ISACA
2009	TOGAF 9 Foundation and Certified (Level 1 and 2)	The Open Group
2004	Implementing Data Protection on Dell Storage - IDPDS	Dell
2004	Implementing Dell Enterprise Storage Solutions - IDESS	Dell
2004	ITIL Foundation Course (IT Service Management)	ITSM

# Certifications

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2024	Microsoft Certified: Fabric Analytics Engineer Associate	Microsoft
2023	Databricks Certified Data Engineer Associate	Databricks
2023	Databricks Certified Data Analyst Associate	Databricks
2022	Microsoft Certified: Azure Data Engineer Associate	Microsoft
2022	Microsoft Certified: Power BI Data Analyst Associate	Microsoft
2022	Microsoft Certified: Dynamics 365 Fundamentals (ERP)	Microsoft
2022	Microsoft 365 Certified: Fundamentals	Microsoft
2021	Microsoft Certified: Power Platform Fundamentals	Microsoft
2021	Microsoft Certified: Azure Fundamentals	Microsoft
2021	Microsoft Certified: Security, Compliance, and Identity Fundamentals	Microsoft
2021	Microsoft Certified: Dynamics 365 Fundamentals (CRM)	Microsoft
2021	Microsoft Office Specialist: Expert (Office 2019)	Microsoft
2021	Microsoft Office Specialist: Microsoft Excel Expert (Office 2019)	Microsoft
2021	Microsoft Office Specialist: Microsoft Word Expert (Office 2019)	Microsoft
2021	Microsoft Office Specialist: Associate (Office 2019)	Microsoft
2021	Microsoft Office Specialist: PowerPoint Associate (Office 2019)	Microsoft
2021	Microsoft Office Specialist: Excel Associate (Office 2019)	Microsoft
2021	Microsoft Office Specialist: Word Associate (Office 2019)	Microsoft
2021	Microsoft Certified: Azure AI Fundamentals	Microsoft
2021	Microsoft Certified: Azure Data Fundamentals	Microsoft
2017	Microsoft Certified Professional	Microsoft
2017	SAFe Agilist (SA)	Scaled Agile
2011	IASA Architect CITA-F (Foundation) Core	IASA Global
2006	CompTIA CTT+ Classroom Trainer	CompTIA
2006	Microsoft Certified Trainer - MCT	Microsoft
2005	LPI (Linux Professional Institute) 101	LPI
2003	ICDL (International Computer Drivers Licence)	ICDL
2002	CompTIA Network Infrastructure Professional – CNIP Stackable Certification	CompTIA
2002	CompTIA Server+	CompTIA
2002	CompTIA IT Operations Specialist – CIOS Stackable Certification	CompTIA
2002	CompTIA Network+	CompTIA
2002	CompTIA A+	CompTIA