

Juan Carlo Mejía Chang

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Professional Profile

Senior Data Analyst • ETL Engineer • Business Intelligence & Reporting Specialist

With over 25 years of experience across multiple industries, I have spent recent years focusing on data analysis, data engineering, and business intelligence. I specialise in designing and managing data solutions that support strategic decision-making. My expertise includes data modelling, ETL processes, and interactive reporting, all aimed at optimising operations and enhance efficiency across the organisation and its teams.

I have demonstrable expertise in integrating multiple data sources to generate meaningful insights, excelling in identifying areas of process improvement, streamlining workflows, and implementing automation to boost data accuracy, and optimise performance. With a proven track record of fostering team collaboration, I effectively communicate with stakeholders to ensure the achievement of goals, KPIs, and benchmarks.

Core Competencies

Data Analysis • Data Collection • Data Modelling • ETL Engineering • Business Intelligence • Reports Development • Statistical Analysis • Programming for Data Analysis • Process Improvement • Requirements Gathering • Risk Management • Documentation • Project and Program Management • Waterfall / Scrum Methodologies.

Technical Competencies

Data Engineering & Analysis.	Python, Pandas, Spark, Notebooks, Power Query, Advanced Excel (VBA).
Business Intelligence & Reporting.	Power BI, Knowage, Report Design, Data Visualisation, Reports Development, DAX, Data Modelling.
Cloud & Distributed Computing.	Microsoft Fabric, Cloud Data Services, Distributed Data Workflows, Dataflows, Pipelines, Lakehouses & Warehouses.
Apps Development.	Angular (Front-End), Django (Back-End), RESTful API Development, HTML5, CSS3, Tailwind, TypeScript, Responsive Web Applications, Desktop Application Development with Electron.
Databases.	PostgreSQL, MySQL, SQLite, Database Design, Data Modelling, Data Integration.

Relevant Work Experience¹

Manager – Analysis and Processes

June 2024 – Present.

Contract & Procurement – Dubai Holding Real Estate [DHRE]

Dubai, UAE.

Reporting to: **Chief Contract and Procurement Officer.**

Develop and maintain data analysis tools and reporting capabilities for the DHRE Contracts & Procurement Team, primarily using Power BI, Advanced Excel (including VBA), SQLite, and Python to perform ETL processes, transform, clean, and aggregate data for analysis.

Conducted a Gap Analysis to assess the data quality, task tracking, and data collection processes following the merger of Nakheel's Procurement team with DHRE, identifying key areas for improvement, and successfully implementing a data-driven digitalisation roadmap to standardise and enhance tracking and data quality across both teams.

Following the integration with DHRE, I successfully brought them up to the same level of data quality best practices previously implemented with the Nakheel team. The process was then enhanced into a fully multi-user, online task tracking solution using SharePoint and MS Teams, improving data accuracy, reducing processing time by 90%, and eliminating data entry errors via validations and master codes.

Developed numerous online reports, providing insights across all key areas for management, internal teams, and external business units, including executive summary reports for the CEO Office. Ensured all reports adhered to the company's design standards and colour palette, maintaining consistency with branding guidelines.

Migrated the entire data ecosystem to Microsoft Fabric using a Medallion Architecture with Lakehouse, Dataflows, Pipelines, and Notebooks to fully automate ETL processes and report generation. This migration optimised data collection and consumption, enhanced data quality, and significantly improved report accuracy and operational efficiency.

Developed two solutions to replace the SharePoint Excel trackers, enhancing user experience and efficiency. These solutions were a desktop app in Electron with Angular and SQLite, and a SharePoint Lists front-end in PowerApps.

¹ Only positions that align with Analysis and Processes.

Manager – Analysis and Processes

August 2021 – June 2024.

Procurement and Contracts - Nakheel

Dubai, UAE.

Reporting to: **Chief Procurement Officer.**

Performed a Gap Analysis to assess the data entry, task tracking, and digitalisation processes for Nakheel Procurement and Contracts Team, identifying key areas for improvement. Successfully implemented a data-driven digitalisation roadmap to standardise and improve tracking and data quality across the team.

Developed and maintained data analysis tools and reporting capabilities for the Nakheel Procurement and Contracts Team, primarily using Power BI, Advanced Excel (including VBA), and Python to perform ETL processes, transform, clean, and aggregate data for analysis.

Implemented a schema for the team's tender trackers, normalising data into a coherent structure to be used as a data source for Dashboards and Reports to Management. This was achieved in Excel, with heavy validation through VBA macros and forms for data input, reducing data processing time by 75%, fully eliminating data entry errors, and cutting data cleanup efforts by 40%.

Developed and automated datasets to feed into Power BI reports using Microsoft Flows and Python, reducing manual intervention and allowing staff to focus on core tasks.

Developed numerous online reports covering various areas of interest for management, internal teams, and external business units, including five reports for the CEO Office.

Integrated, modelled, and established data relationships between Vendor Data Systems, Prequalification task data, Oracle Procurement Modules, and Tender Trackers, using VBA-enhanced Excel forms and Python.

Developed solutions to replace VBA-enhanced Excel trackers, improving efficiency and user experience.

Chief Project Manager

July 2018 – September 2020.

DUTECH / Customs World

Dubai, UAE.

Reporting to: **CEO.**

Governed and oversaw technology teams, consolidating work plans, schedules, phases, and budgets (AED 100M+/-) into a master program plan. Delivered executive-level reports, dashboards, and insights as a key member of the Executive Advisory Team.

Introduced and mentored the Business Development Team in optimised processes, enabling accurate cost estimation, staff sizing, and scheduling for ongoing projects. This initiative resulted in a 50% reduction in overheads and an 80% reduction in under/overestimation cases.

Established and nurtured key business relationships with Government Entities and Public/Private Organisations globally.

Senior PM and Consultant for the Dominican Republic Customs and Suriname Customs Transformation and Modernisation.

Senior Project Manager**August 2012 – July 2018.****CrimsonLogic Chile SpA.****Santiago, Chile.**

Reporting to: **VP of Regional HQ LATAM & Caribbean.**

Performed Project Management and Agile Transformation for the implementation of Chile's Single Electronic Windows for International Commerce and performed IT Infrastructure Project Manager duties for the Bahamas Single Electronic Window System and the Chile - Peru Interoperability Platform (IOP).

Created and implemented Business Intelligence and Analytics solutions related to trade and commerce for the President of Chile's Digital Transformation Committee.

Senior Technical Presales Engineer**April 2009 – August 2012.****CrimsonLogic PTE LTD.****Singapore, Singapore.**

Reporting to: **VP of Technical Sales and Solutions Engineering.**

Developed and delivered competitive, feasible IT solutions for government agencies in Singapore and globally, incorporating data analytics, reporting, and insights to optimise decision-making while successfully securing bids in Singapore, Chile, Bahamas, Trinidad & Tobago, Suriname, and Saudi Arabia, leading to awarded contracts valued at over USD 300M.

Certifications

Certified Scrum Master [000805452].	Buenos Aires, Argentina. 2018.
IBM Servers Presales Specialist.	IBM, Singapore, Singapore. 2007.
E-Government Implementation Specialist.	KOICA - Seoul, South Korea. 2003.
Java Development for E-Government.	Tata Infotech - New Delhi, India. 2002.

Education

Artificial Intelligence: Implications for Business Strategy	Completed, 2019
MIT Sloan School of Management.	Online
Bachelor of Science (B.Sc.)	Completed, 1992
Instituto Comercial Panama.	Panama City, Panamá

Languages

Languages: Spanish (Native), English (Fluent).