MATTHIAS NGOL SAMBA MBARGA, MBA

SENIOR BUSINESS ANALYST | BUSINESS INTELLIGENCE | SYSTEMS INTEGRATION

Silver Spring, Maryland | matthias@matthiasmbarga.com | 240-505-6140

matthiasmbarga.com | linkedin.com/in/matthias-mbarga-mba/ | ORCID: 0009-0006-3465-5242

PROFESSIONAL SUMMARY

Senior Business Analyst / IT Consultant with 15+ years across financial reporting, enterprise systems, and data platforms. Leads requirements discovery, KPI definitions, source-to-report mapping, and coordination through dashboard validation and user acceptance testing. Combines an MBA in Finance with practical SQL/T-SQL, Python, R, PL/SQL Excel, Power BI, and Tableau experience. Earlier database, cloud, and reliability roles support collaboration between business stakeholders and technical teams.

CORE COMPETENCIES

Business analysis: stakeholder discovery, requirements definition, traceability, gap analysis, process and data-flow mapping, acceptance criteria, and UAT.

Business intelligence: KPI definitions, source mapping, SQL/T-SQL, Python, R, Tensor flow, Confluence, data validation, dashboard interpretation, Power BI, Tableau, and advanced Excel.

Financial analysis: forecasting, variance analysis, financial modeling, capital-allocation scenarios, and executive decision support. Systems and delivery: enterprise integration, operational controls, ETL concepts, Agile/Scrum, Jira, Confluence, SAP ERP, and AWS.

PROFESSIONAL EXPERIENCE

Dominion Systems Inc. - Contract Engagements

July 2016–Present

Senior Business Analyst and Strategy Consultant

January 2022–Present

- Provide primary functional support for SAP S/4HANA Controlling (CO) and Finance (FI) modules.
- Configure and support cost center accounting, internal orders, profit center accounting, and CO-PA functionality.
- Lead month-end close activities including material ledger closing, allocations, settlement, and top-down CO-PA distribution.
- Partner with Finance, Production Planning, Materials Management, Sales & Distribution, and Supply Chain teams to resolve cross-module integration issues.
- Design and enhance SAP integration between CO and MM for accurate product costing and inventory valuation.
- Support actual costing and variance analysis through material ledger configuration and reporting.
- Design and support cash application solutions including Lockbox and Blackline integrations.
- Configure and enhance FSCM/Treasury processes supporting dispute management and collections optimization.

- Provide internal and external reporting support ensuring compliance with corporate deadlines and financial governance requirements.
- Conduct requirements gathering sessions with finance and operations stakeholders to define system enhancements.
- Assess technical feasibility of proposed solutions and recommend optimal SAP configurations.
- Support SAP enhancements, testing cycles (unit, integration, UAT), and post-go-live stabilization.
- Develop functional specifications and collaborate with ABAP developers for custom reports and enhancements.
- Provide production support, troubleshoot issues, and ensure system stability across finance modules.
- Drive process improvements that reduced manual reconciliation efforts and improved financial reporting accuracy.
- Lead requirements discovery with finance, data, and engineering stakeholders for financial and operational reporting.
- Translate stakeholder requests into KPI definitions, source-data needs, reporting rules, and acceptance criteria.
- Define source-to-report mappings that connect business metrics with their underlying fields and reporting outputs.
- Recommended consolidating fragmented reporting into Power BI and Tableau workflows; the Program Manager approved the approach after reviewing the results.
- Coordinate dashboard validation and user acceptance testing, using Jira and Confluence to support requirements and delivery coordination.
- Work across business and technical contributors to clarify reporting expectations and maintain traceability through review.
- Dominion Systems Inc. internal program reporting indicated approximately 30% fewer manual reporting cycles following consolidation. This is a program-level result; client-specific measurement records remain confidential.
- Build Excel, SQL, Python, and R models for forecasting and capital-allocation scenarios; document assumptions, controls, and decision implications in AI strategy work.

SRE and Data Science Lead — Dominion Systems Inc.

Contract engagements | October 2019–December 2021

- Reviewed service dependencies to understand relationships among enterprise services and data-intensive workloads.
- Analyzed incidents and data flows to identify operational risks and control gaps.
- Documented workflows, escalation paths, and controls with business, data, and engineering teams.
- Connected operational requirements with platform changes and communicated dependencies across technical and business contributors.
- Internal program reporting showed 99.95%+ availability and approximately 40% lower mean time to recovery.

Senior DevOps and Platform Engineer — Abiatom LLC

Contract engagements | July 2016–September 2019

- Standardized source-control practices across integration work to support consistent collaboration and change management.
- Standardized CI/CD and release practices to improve the consistency of platform delivery workflows.
- Internal program reporting indicated approximately 40% fewer merge conflicts following standardization.
- Designed AWS automation and operational controls supporting platform resilience, audit preparation, and cost visibility.

Data Platform and Cloud Database Engineer — Verizon

Contract engagement | Texas, remote | 2015–2016

- Analyzed execution plans to identify database performance constraints in hybrid services.
- Used indexing and concurrency analysis to improve database service performance.
- Reported query latency fell 30–45% in the measured engagement work.

Assistant Financial Accountant and Financial Systems Developer — CITI Group

| Maryland, on site | 2010–2015

- Supported SAP ECC/FICO modules including General Ledger (GL), Accounts Payable (AP), Accounts Receivable (AR), Asset Accounting (AA), and Controlling (CO) to ensure accurate financial processing and reporting.
- Assisted with SAP ECC/FICO implementation and migration initiatives and S/4HANA activities in 2015, including data validation, configuration support, and cutover planning.
- Configured and supported cost center accounting, internal orders, profit center accounting, and CO allocations.
- Participated in blueprinting workshops to gather finance and accounting requirements and translate them into functional design documents.
- Designed and supported financial reporting, audit controls, and compliance processes aligned with corporate and regulatory standards.
- Supported month-end and year-end close processes, including reconciliations, settlement runs, and financial validations.
- Partnered with supply chain teams to improve integration between MM, PP, SD, and CO modules, ensuring accurate cost flow and inventory valuation.
- Supported Material Ledger and product costing processes, including variance analysis and actual costing.
- Conducted system integration testing (SIT), user acceptance testing (UAT), regression testing, and defect resolution tracking.
- Created detailed functional specifications and collaborated with ABAP developers for custom reports, enhancements, and interfaces.
- Developed and delivered end-user training materials, job aids, and knowledge transfer sessions to improve user adoption.
- Improved financial reporting processes through automation, optimized account determination, and enhanced SAP configuration.

- Analyzed and resolved production issues related to financial postings, cross-module integration, and reporting discrepancies.
- Supported SAP security and role validation processes to ensure proper segregation of duties (SoD).
- Assisted with treasury-related enhancements including cash management reporting and bank reconciliation improvements.
- Streamlined recurring journal entries and allocation cycles to reduce manual intervention and improve closing efficiency.
- Prepared financial and operating reports using SAP ERP for management review.
- Developed PL/SQL reporting automation to support financial information processing.
- Used Linux reporting automation to support recurring reporting workflows.

TECHNICAL SKILLS

Reporting and visualization: Power BI, Tableau, advanced Excel, KPI definitions, dashboard review, and financial reporting.

Programming and data: SQL/T-SQL, Python, R, PL/SQL, source-to-report mapping, data validation, and ETL concepts.

Enterprise and collaboration: SAP ECC/FICO and S/4HANA, FI/CO, CO-PA, Material Ledger, MM/PP/SD integration, FSCM/Treasury, Lockbox, BlackLine, AWS, Linux, Jira, Confluence, Agile/Scrum, source control, and CI/CD.

SELECTED ANALYTICAL PROJECTS

Pfizer Financial Reporting and Decision Intelligence

Independent public-data model | FY2025 analytical example

- Defined metric-year grain, metric rules, and source mapping for a local SQLite reporting model.
- Used composite SQL keys to prevent duplicate metric-year records and preserved missing values as NULL.
- Documented technical checks for source basis, missing values, uniqueness, reconciliation, and decision measures.
- Reconciled $11.704 billion in operating cash flow less $2.629 billion in capital expenditure to $9.075 billion in free cash flow.
- Identified a $696 million gap between free cash flow and $9.771 billion in cash dividends. The figures describe Pfizer financial data, not savings or revenue generated by this work.
- Used the public-data example to demonstrate reporting methods; it does not establish Pfizer client adoption or production deployment.

Excel Business Analysis

Independent e-commerce survey analysis

- Examined 263 survey records and 30 source fields using a documented codebook.
- Used formulas, pivot tables, correlation analysis, and validation checks to inspect data and interpret associations.

Time Series Forecasting and Research

Independent comparative modeling and open research

- Compared four forecasting methods across 1,554 price observations using historical error measures including MAD, MSE, and MAPE.
- Evaluated price-level and daily-return regressions. Workbook results do not establish out-of-sample predictive performance.
- Agentic AI, LLM Methodologies, and Portfolio Risk-Analysis ROI at Navy Federal Credit Union: An Evidence-Constrained Quasi-Experimental Study Comparing the Pre-Agentic Era (2023-2024) With the Agentic Transition (2025). Zenodo. https://doi.org/10.5281/zenodo.20276052.
- Authored an open hybrid AI/ARIMA study on residual learning, forecasting baselines, and validation. DOI: 10.5281/zenodo.21199900,

EDUCATION

MBA, Finance — University of Maryland Global Campus

M.S., Data Science — Eastern University (In progress)

M.S., Accounting and Corporate Finance — University of Douala

B.S., Management Sciences — University of Douala

CERTIFICATIONS AND TRAINING

Google Business Intelligence Certificate, Microsoft Certified Trainer, CISCO AI Technical Practitioner, CISCO Introduction to Data Science, CISCO AI and LLM in Networking, Microsoft Azure Solutions Architect Expert; AWS Solutions Architect Associate; CompTIA Security+; Oracle Cloud Infrastructure Architect Associate.

Additional training and credentials: Oracle Autonomous Database Specialist; Data Structures and Algorithms with Python; Tableau development and authoring training.

LEADERSHIP AND SERVICE —DEPARTMENT OF HEALTH AND HUMAN SERVICES (DHHS) | MONTGOMERY COUNTY | MARYLAND

Sep 2024–Present

Community Advocate and Ambassador for fair treatment, access, and community awareness through data-informed public engagement.