

Dr. Todd A. Nitkin

**Senior Power BI Developer & Data Visualization Consultant
Microsoft Certified Power BI Data Analyst Associate (PL-300)**

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| [LinkedIn](#) | [Dr. Nitkin Website](#) | [Published Research](#) |

PROFESSIONAL SUMMARY

Senior Power BI Developer and Data Visualization Consultant with 11+ years delivering enterprise-scale Power BI solutions and 15+ years in business intelligence. Expert in designing semantic layers, building high-performance dashboards, and architecting data models that transform complex datasets into actionable insights. Proven track record partnering directly with clients and stakeholders across 90+ countries to deliver scalable Power BI solutions processing 50M+ records with sub-second query performance. Specializes in advanced DAX optimization, ETL pipeline development, and multi-source data integration using Power BI, Tableau, and modern cloud platforms. Microsoft Certified with consulting experience spanning geospatial analytics, operational reporting, and real-time visualization systems.

PROFESSIONAL SUMMARY

- ◆ **Power BI Ecosystem:** Power BI Desktop & Service (11+ years) • Advanced DAX (time intelligence, dynamic measures, complex calculations) • Power Query (M) & ETL • Semantic layer & reporting layer architecture • Data modeling (star schema, snowflake, composite models) • DirectQuery, Import mode, and hybrid configurations • Query folding & performance optimization • Aggregation tables & query tuning • Incremental refresh strategies • Row-level security (RLS) • Power BI Gateway • Workspaces, apps, and deployment pipelines • Dataflows • Power BI Report Server • Power BI REST APIs • Power BI Copilot
- ◆ **Data Visualization & Design:** Tableau Desktop & Tableau Public • Interactive dashboards • KPI design & executive scorecards • Custom Power BI visuals • Wireframing (Figma, Balsamiq) • Design-first methodology • UX optimization • QA testing & validation
- ◆ **Data Engineering & Cloud:** Azure Synapse Analytics • Azure Data Lake (ADLS) • Azure Data Factory • Azure SQL Managed Instance • Databricks • AWS SageMaker • SQL Server (T-SQL, SSRS, SSIS, SSAS) • PostgreSQL, MySQL, Snowflake • Data warehouse architecture • ETL/ELT pipelines • Alteryx
- ◆ **Programming & Analytics:** SQL (advanced queries, optimization) • Python (Pandas, NumPy, Matplotlib, APIs) • DAX • Power Query (M) • Git/GitHub • Docker • API integration
- ◆ **Methodologies:** Agile/Scrum • DevOps & CI/CD • Requirements gathering • Stakeholder engagement • Data governance • Performance testing • Technical documentation • User training

PROFESSIONAL EXPERIENCE

IntelliDyne, LLC | Vienna, VA

Senior Power BI Developer & Analytics Lead | Jun 2024 - Present

Enterprise Geospatial Analytics Platform for International Construction (Flagship Achievement):

- Architected national-scale Power BI solution for international construction company analyzing **50 million soil and geology polygons** across **350+ tables** with **50+ dimensional attributes**, reducing geotechnical site analysis time from weeks to **under 30 seconds** for nationwide construction project queries
- Designed semantic layer with **star schema architecture** and pre-computed aggregations enabling real-time analysis of massive geospatial datasets, implementing **query folding** and **aggregation tables** reducing dashboard load times by **70%**

- Engineered **DirectQuery and composite data models** integrating spatial indexing with **Power BI incremental refresh**, optimizing for 10M+ daily query operations while maintaining sub-second response times for construction project planning
- Partnered directly with C-suite stakeholders to translate complex business requirements into technical specifications, delivering role-based dashboards with custom visualizations tailored to **8 distinct user personas** (engineers, project managers, executives)
- Built automated ETL pipelines using **Power Query, Python, and Azure Data Factory** ingesting data from **15+ government geological and scientific APIs** (USGS, NRCS, state databases), ensuring real-time data freshness with **scheduled refresh** every 4 hours
- Implemented comprehensive **row-level security (RLS)** across **12 organizational roles**, ensuring secure data access for 500+ concurrent users across regional offices
- Created reusable **Power BI templates** and **DAX pattern library** (75+ measures) for standardized reporting, reducing new dashboard development time by **60%**
- Deployed Power BI solutions via **Service workspaces** with **Power BI Gateway** configuration, managing **deployment pipelines** for dev/test/prod environments

Multi-Client Power BI Consulting & Development:

- Delivered **15+ client Power BI engagements** independently, partnering with stakeholders to understand requirements, design wireframes using **Figma**, and deploy production-ready dashboards within 4–6-week sprints
- Developed **advanced DAX measures** including time intelligence (YoY, MoM, rolling averages), dynamic ranking with RANKX, what-if parameters, and complex KPI logic serving **200+ end users**
- Engineered **Power Query transformation workflows** consolidating data from **SQL databases, Excel files, SharePoint lists, REST APIs, and flat files**, implementing data quality checks and error handling
- Optimized dashboard performance through **DAX query optimization**, variable usage, and calculated column elimination, improving report rendering speed by **40-60%**
- Conducted **QA testing and validation** of 50+ dashboards ensuring logical integrity and data accuracy, documenting test cases and resolution of 100+ bugs
- Implemented **Agile methodology** with bi-weekly sprints and stakeholder demos, maintaining 95%+ on-time delivery rate
- Trained **30+ business users** on Power BI Desktop, DAX fundamentals, and self-service analytics, creating documentation and video tutorials

Inspire Ethiopia | North Potomac, MD & Ethiopia

Co-Founder & Business Intelligence Lead | 2018 - Present

- Designed and deployed comprehensive **Power BI analytics platform** tracking program outcomes across **8 rural regions**, partnering with field teams and donor stakeholders to define KPIs and reporting requirements
- Architected **data warehouse** consolidating program metrics and financial systems from **disparate sources** (Excel, mobile apps, survey platforms), building **ETL pipelines** with **Power Query and SQL**
- Developed **executive dashboards** featuring **advanced DAX time intelligence** (YoY growth, trend analysis, forecasting) monitoring student enrollment (5,000+ students), teacher training, and program effectiveness across **12 schools**
- Created **predictive analytics models** within Power BI forecasting resource needs and optimizing program delivery, improving budget allocation accuracy by **35%**
- Built **interactive Tableau dashboards** visualizing geospatial program distribution, demographic trends, and comparative analysis for grant applications and impact reporting
- Delivered data-driven insights increasing fundraising effectiveness by **40%** through evidence-based visual storytelling and impact measurement dashboards

World Vision International | Washington, DC

Senior Business Intelligence Lead | Nov 2018 - Oct 2023

Global Power BI Reporting Framework (90-Country Deployment):

- Architected enterprise **Power BI reporting framework** deployed across **90+ countries**, standardizing KPI tracking and data visualization for global programs serving **10M+ beneficiaries**
- Developed reusable **Power BI assets** including custom themes, **DAX measure libraries (200+ measures)**, and **data model templates** adopted organization-wide, reducing dashboard development time by **50%**

- Built complex **data models** integrating **disparate data sources** (SQL databases, survey platforms, Excel, SPSS, laboratory systems, supply chain) using **Power Query**, enabling cross-country analysis for **500+ program managers**
- Created **advanced DAX calculations** for program analysis including prevalence rates, cohort analysis, trend forecasting, comparative regional reporting, and **time intelligence** across geographic hierarchies
- Designed **operational dashboards** with drill-through capabilities tracking key program indicators and resource allocation across **58 countries and 179 programs**
- Implemented **row-level security (RLS)** in **Power BI Service** ensuring country offices accessed only authorized data, managing security groups for **1,000+ users** across organizational hierarchy
- Optimized Power BI report performance through **query optimization, DirectQuery tuning, and aggregation strategies**, reducing dashboard load times by **60%** for reports with 5M+ records
- Trained **50+ international staff** on Power BI best practices, **DAX fundamentals**, and dashboard design, authoring comprehensive technical documentation for global BI standards
- Deployed Power BI solutions via **workspace management, scheduled refresh automation, and Power BI Gateway configuration** for on-premises data sources across international offices

Global Data Warehouse & Analytics Architecture:

- Pioneered global **Data Warehouse System** using **SQL Server and Power BI**, aggregating data from **58 countries and 179 programs** into unified reporting platform processing **10M+ records annually**
- Designed **star schema data warehouse architecture** optimizing for OLAP-style analysis of program services, emergency response operations, and monitoring & evaluation data
- Developed **predictive models** in Power BI for resource allocation forecasting during emergency responses, enhancing response planning effectiveness by **35%**
- Built **automated ETL processes** using **SSIS and Python**, integrating mobile applications, paper-based records, and digital systems, reducing manual data processing time by **70%**
- Implemented **real-time monitoring dashboards** enabling rapid program response and **data quality tracking** monitoring completeness and accuracy across global operations
- Led **data governance initiatives** establishing standards for data collection, quality assurance, validation, and compliance across international operations
- Collaborated with WHO, UNICEF, and USAID on data interoperability frameworks and reporting standards

Medical Teams International | Portland, OR

Director, Data Analytics & Business Intelligence | Nov 2005 - Oct 2018

- Architected global **Program Information System (PIS)** leveraging **SQL Server, SSRS, and business intelligence tools** across **58 countries and 179 programs**, establishing data-driven decision-making frameworks
- Directed **predictive modeling initiatives** including time series forecasting, regression models, and classification systems for resource optimization, improving program targeting accuracy by **30%**
- Built and mentored **data analytics team** of 8 members, establishing standards for dashboard development, data quality, and stakeholder reporting
- Designed **reporting solutions** using **SSRS and early Power BI versions** creating executive dashboards tracking financial metrics, program performance, and operational KPIs for **200+ stakeholders**
- Implemented **data warehouse architecture** with **ETL pipelines** using **SSIS**, consolidating data from field operations, partner organizations, and donor systems
- Led cross-functional collaboration between analytics, engineering, and program teams delivering BI-powered solutions supporting **\$50M+ annual program budget**

Silver Spring Ambulatory Surgical Center | Silver Spring, MD

Physician & Owner | 1989 - 2000

- Analyzed healthcare operations data optimizing clinical and financial performance, implementing early analytics systems for patient flow optimization and outcome improvement
- Conducted medical coding analysis (CPT/HCPCS, ICD-10) ensuring billing accuracy and compliance, optimizing revenue cycle operations and reducing claim denials by **25%**
- Developed operational reporting tracking appointment scheduling, patient volume trends, and clinical productivity metrics supporting business growth

EDUCATION

- **Johns Hopkins Bloomberg School of Public Health** | *Master of Public Health (MPH)* | Data Analysis, Business Intelligence, Operations Research, Epidemiology
- **Temple University School of Medicine** | *Doctor of Podiatric Medicine*
- **Georgetown University Medical Center** | *Surgical Residency, Fellow, ACFAS*
- **University of Vermont** | *Bachelor of Science* | Mathematics, Statistics, Information Technology

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** - Current
- **MIT Applied Data Science Program** - Machine Learning, LLMs, Generative AI
- **Certificate in Advanced Data Science** - Python, ML, Statistical Modeling
- **Certificate in Power BI, SQL, SSIS, and SSRS**

PUBLICATIONS & THOUGHT LEADERSHIP

- **9 peer-reviewed published research papers** demonstrating advanced statistical analysis, data visualization techniques, complex data modeling methodologies, and quantitative analytics frameworks applicable to enterprise BI solutions: [Publications](#)
- **Active GitHub contributor** with published code repositories and open-source contributions

KEY ACHIEVEMENTS & METRICS

- **Delivered 200+ production Power BI dashboards** across 15+ industries serving 5,000+ end users globally
- **Architected enterprise solutions** processing 50M+ records with sub-second query performance
- **Reduced dashboard development time by 60%** through reusable templates and DAX libraries
- **Improved report performance by 40-70%** through query optimization and data modeling best practices
- **Trained 100+ professionals** on Power BI, DAX, and data visualization across multiple organizations
- **Deployed Power BI solutions** across 90+ countries supporting \$100M+ program operations
- **Integrated 30+ disparate data sources** into unified reporting platforms
- **Maintained 95%+ client satisfaction** with on-time delivery

VOLUNTEER LEADERSHIP

- **Inspire Ethiopia** | Co-founder and VP
501(c)(3) nonprofit improving rural education access in rural Ethiopia
- **Rotary International**, Potomac-Bethesda Club | Past President (6 terms) & Current Member(24 years)
Developing data-driven Rotary Global Grants for social impact initiatives in Ethiopia, Haiti, Nepal, and Belize

TECHNICAL PROFICIENCIES

Power BI Desktop • Power BI Service • Power BI Report Server • Power BI Gateway • Tableau • Tableau Public • DAX • Power Query (M) • SQL • T-SQL • Python • Pandas • NumPy • Matplotlib • Azure Synapse Analytics • Azure Data Factory • Azure Data Lake • Azure SQL Managed Instance • Databricks • Alteryx • AWS SageMaker • SSRS • SSIS • SSAS • Snowflake • PostgreSQL • MySQL • Git • GitHub • Docker • Figma • Balsamiq • Agile • Scrum • DevOps • CI/CD • Data Modeling • Star Schema • Snowflake Schema • Semantic Layer Design • ETL • ELT • Data Warehousing • Query Optimization • Performance Tuning