Nicholas A. Wiley

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SUMMARY

Managing Consultant and applied data scientist with 12+ years delivering analytics, ML, and decision-support solutions across federal civilian agencies (NSF, USDA, USPS, Census), startups, and digital transformation engagements. Hands-on builder (Python/SQL, NLP embeddings, clustering, dashboards, browser automation) who translates mission needs into scalable, auditable tools. Founder of an AR startup with two U.S. utility patents. Comfortable in regulated settings with a focus on governance, documentation, accessibility, and human-in-the-loop workflows.

CORE SKILLS

AI/ML & NLP: Sentence Transformers, BERTopic, SciBERT/BERT, UMAP, HDBSCAN, K-Means, Optuna, scikit-learn, human-in-the-loop workflows

Platforms & Tools: Streamlit, Next.js, Stripe, HubSpot, BigQuery, DBeaver, ServiceNow; ESRI, Palantir, Unity

Data & Analytics: SQL, Python, AWS, Tableau, SAS, data warehouses, ETL pipelines, Salesforce integration

Governance & Delivery: Agile/Scrum, stakeholder alignment, Section 508, documentation, adoption enablement, browser automation

EXPERIENCE

IBM — Global Business Services (AI & Analytics)   2019–Present
Managing Consultant

- Lead delivery of analytics and ML solutions for federal clients (NSF, USDA, USPS, Census), aligning technical approach to mission goals and stakeholder needs.
- **NSF:** Built Panel Wizard decision-support tool consolidating 8 screens into 1, using sentence transformer embeddings and K-Means clustering. Reduced panel formation from weeks to hours. Built BERTopic-based proposal classification system (7,000+ proposals, 70+ themes, Optuna-optimized). Created researcher lineage dashboard integrating public and internal data. Developed RoboRA document automation, ADCC compliance checking (28 automated checks), and telemetry dashboards.
- **USDA:** Built global data warehouse on AWS integrating Salesforce, integrity database, and CBP customs import records. Created NLP taxonomy classifier (scikit-learn) for organic import categorization. Developed dozens of Tableau reports supporting 50,000+ certified operations.
- **USPS:** Managed data analytics for international mail operations, identifying leads and operational insights using SAS.
- **Census Bureau:** Provided data analytics support including ServiceNow administration and Python-based reporting.
- Led proposal writing supporting a 5-year, $5M contract win.
- Facilitated adoption through study halls and working groups; mentored analysts and supported executive reporting.

Lincoln Leadership Institute at Gettysburg   2020–Present
Lead Software Engineer & Digital Strategist (Contract)

- Led the digital transformation of a premier in-person leadership development program: conceptualized the digital format, identified and vetted production partners, adapted content for virtual delivery, trained and led presenters, and managed advertising and enrollment.
- Rebuilt gettysburgleadership.com using Next.js with Stripe, HubSpot, and PostHog analytics integrations. Modernized from legacy WordPress.
- Conceptualized the "America at 250" program using AI-powered market research; the program has generated significant revenue since launch.
- Designed and executed digital marketing campaigns (HubSpot email automation) that drove direct program registrations, contributing to hundreds of thousands in revenue.
- Automated creation of marketing materials; led migration from Emma to HubSpot for email marketing.
- Mentored an intern through conversion to full-time hire to manage digital assets and marketing operations.

VisiTime, LLC   2012–~2020
Founder

- Founded AR-driven tours using Unity platform programming and geospatial datasets to make historical context accessible and engaging.
- Raised $200K+ to produce a tour book and multiple mobile applications. Managed iPad rental fleet including device imaging and provisioning.
- Painstakingly geocoded historical content for dynamic location-based delivery; coordinated conversion of archival map data into machine-readable formats.
- Presented to Civil War historical societies, building trust for technology adoption in a traditionally technology-resistant market.
- U.S. utility patent holder (9,417,668; 9,900,042).

Transform, Inc.   2014–2015
Solution Engineer

- Integrated analytics tooling into client-facing visualization products; collaborated with executives to translate goals into measurable reporting.

U.S. Government — Recovery Accountability and Transparency Board   2011–2012
Data Analyst (GIS Lead)

- Led GIS integration of government data for Recovery Act oversight using ESRI and Palantir network/lead analysis.
- Assisted in creation of data ontology for cross-system investigative analysis.
- Conceived investigation that identified 90 contract misrepresentations through geospatial and network analysis.

EDUCATION

University of Maryland — MBA (Consulting & Management), MS (Information Systems)   2019
Gettysburg College — BA Environmental Studies   2010
Penn State — Project Management Certificate; GIS Certificate   2017; 2012

CERTIFICATIONS / PROGRAMS

- SAFe Scrum Master (2022)
- Tableau Certified Associate (2022)
- MIT Professional Education — Applied Data Science: Leveraging AI for Effective Decision-Making (2024)

PATENTS

- U.S. Patent 9,417,668
- U.S. Patent 9,900,042