

Samantha E. Rasmussen

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Professional Experience

Senior Independent Testing Specialist (AI Optimization), Wells Fargo – Tempe, AZ July 2025 – Present

- Engineered an AI prompt classification pipeline to assess customer complaints line by line, automating compliance risk categorization and reducing manual review for business teams.
- Built Power BI dashboards connecting directly to a live complaints database to surface real-time regulatory compliance risk signals for front-line business teams.
- Served as sole data lead across six pilot engagements, owning end-to-end data strategy, execution, and documentation; delivering population validations, interactive dashboards, and a keyword-matching solution.
- Designed risk-based reconciliation prompts and reusable prompt engineering standards for testing workflows, incorporating validation gates, fail-fast logic, and audit-ready documentation.
- Led the team's intern program and scoped two AI projects from the ground up: a data governance framework for an internal AI self-service tool, and a natural language-to-SQL generation system enabling non-technical users to query internal datasets.
- Resolved a geolocation enrichment problem across ~150K records by evaluating AI tools (Copilot, Tachyon) before pivoting to spatial analytics, matching 135K+ records and applying nearest-location logic to resolve ~15K edge cases.

Analytics Consultant, Wells Fargo – Chandler, AZ July 2023 – July 2025

- Designed a Tableau and SQL dashboard to monitor financial crime trends, applying keyword extraction and z-score anomaly detection to flag high-risk activity across business units.
- Built a Python web scraper to extract and structure 4,000+ policy entries from 50+ internal documents, making institutional knowledge searchable and enabling LLM-based querying.
- Built an Alteryx application that automated recurring report generation and data validation, standardizing outputs and saving analysts 50+ hours per cycle across multiple teams.
- Designed a TF-IDF text similarity model to compare internal policy content against regulatory standards, reducing manual review time and improving compliance alignment.
- Wrote SQL-based data validation logic across critical risk systems, achieving 100% test coverage and surfacing findings that improved downstream data integrity.
- Elected VP of the Early Careers Council, organizing programming and mentorship initiatives for 2,000+ employees including speaker series and technical onboarding events.

Technology Consulting Intern, PricewaterhouseCoopers LLC – Phoenix, AZ June 2022 – August 2022

- Built Alteryx workflows to process and standardize over 10 million patient records for a benchmarking dashboard measuring healthcare access metrics.
- Created a Tableau dashboard prototype to visualize patient flow and access delays, improving stakeholder clarity and informing platform development decisions.

Additional Experience

Data Science Instructor, Statistics Without Borders August 2025 – December 2025

- Co-designed and delivered a multi-module data science workshop for faculty and graduate students at Obafemi Awolowo University in Nigeria, creating Python lessons, Jupyter Notebook exercises, and sessions covering data pipelines, experimentation, machine learning, and visualization.

Lead Intern, IU Center of Excellence for Women & Technology – Bloomington, IN July 2021 – July 2023

- Managed a team of interns across 18 initiatives promoting technology education; developed and taught a six-week coding curriculum for middle school students at the Boys and Girls Club.

Education

Indiana University, Bachelor of Science in Computer Science August 2020 – May 2023

- Luddy School Direct Admit Scholarship, Hutton Honors College | Published 2x at ACM (CHI 2022, ACI 2022)

Technical Skills

Languages: Python, SQL, R

Technologies: Alteryx (Advanced Certified), Tableau, Power BI, Excel, Teradata, SAS, Microsoft SQL Server, Git