

RACHEL MBOLEMBE

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EDUCATION

University of Maryland, College Park

Bachelor of Science in Information Science | Smith Minor in General Business | Dean's List | Fall 2025 Expected May 2027

SKILLS

Business Analysis: Requirements Gathering, Stakeholder Communication, Root Cause Analysis, Business Process Analysis, Data-Driven Decision Making

Analytics & Visualization: Excel, SQL, Python, Tableau, Power BI, Data Cleaning, Statistical Analysis, Dashboard Development

Research: Quantitative: Analysis, Qualitative Research, Trend Analysis, KPI Reporting, Data Storytelling, Presentation Development

EXPERIENCE

Data Analytics Extern | Center for Improving Youth Justice (CIYJ) | Remote July 2026 – Present

- Analyze multi-file of 300+ juvenile justice datasets to identify trends and relationships across facility conditions, safety, fairness, rehabilitation, and youth outcomes
- Develop focused research questions and apply descriptive and statistical analysis in Python to evaluate relationships between variables and produce evidence-supported findings
- Stress-test analytical findings against common methodological pitfalls, document limitations, and refine interpretations to develop defensible conclusions
- Translate quantitative findings into practitioner-focused recommendations through data visualizations, a written findings brief, presentation deck, and recorded presentation for non-technical audiences

Business & Product Analyst Fellow – AllVoyager | Break Through Tech | UMD Nov 2025 - Jan 2026

- Conducted user with 4 members and market research to identify traveler pain points related to planning, budgeting, navigation, and information overload
- Translated research findings into functional requirements and prioritized product features for a centralized travel-planning application
- Designed an interactive Figma prototype and collaborated with technical teammates to align product functionality with identified user needs
- Presented the business problem, research findings, proposed solution, and expected customer value to mentors and peers

PROJECTS

Retail Superstore Sales Performance Analysis | Independent Project | July 2026- Present

- Define business objectives, stakeholder requirements, KPIs, and analytical questions for an end-to-end retail performance assessment
- Analyze 9,994 transactions across 21 business attributes using Excel to evaluate sales, profitability, customer segments, product categories, and regional performance
- Apply trend and root-cause analysis to identify performance differences and opportunities for operational and profitability improvement
- Develop Tableau dashboards and executive-style recommendations that translate analytical findings into business decisions

Montgomery County Crime Database | University of Maryland Jan 2026- May 2026

- Collaborated with a five-member team to transform **300,000+ public crime records** into a normalized relational database supporting geographic and offense analysis

- Cleaned and structured raw data in Excel and applied 1NF, 2NF, and 3NF normalization to reduce redundancy and improve data integrity
- Designed the ERD and implemented tables, primary and foreign keys, and relationships in MySQL Workbench; validated functionality using joins, filters, aggregations, and subqueries
- Documented database design, methodology, and findings in a 10-page report, earning a 95% grade

Business Licensing Awareness Research | University of Maryland

April 2026 – May 2026

- Investigated business-licensing awareness in Berwyn Heights by analyzing U.S. Census from 2010 -200 demographic data and identifying potential communication barriers affecting local business owners
- Developed research-supported recommendations, including multilingual resources and expanded community outreach, and presented findings through data visualizations and a recorded presentation
- Designed a qualitative stakeholder research approach to supplement quantitative findings; project was selected by the instructor to be shared with a researcher conducting related community studies

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Volunteer Literacy Mentor | Maryland Mentor Corps, University of Maryland |

Sep 2024 – Nov 2024

- Mentored two elementary students through weekly individualized literacy sessions and collaborated with teachers and school staff to support student development

Business Analyst Bootcamp | Udemy | Excel, Statistics, SQL, Tableau

- Applied Excel, SQL, Tableau, and statistical analysis to data preparation, analysis, visualization, dashboards, and business-focused recommendations.

Involvement

INROADS Candidate | Business & Data Club | Information Science Female Identifying Student Organization | NABA | I4C Professional Development Mentorship