

MIKHAIL SEBASTIEN TABONG

Annapolis, MD

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Education

University of Maryland, College Park

Aug 2023 – May 2026

Bachelor of Science in Information Science

College Park, MD

- **Relevant Coursework:** Data Science; Intro to Data Visualization; Data Science Techniques; Health Data Analytics; Database Design Modeling; Application of R for Data Science
- **Certification:** Google Data Analytics Professional Certificate — Covered data cleaning, SQL, R, Tableau, and case-based problem solving.

Experience

Data Analyst Intern

Oct 2023 – Dec 2024

Chosan

Los Angeles, CA (Remote)

- Audited and optimized contractor inventory database using SQL; reduced discrepancies by 15%.
- Developed Python ETL pipelines for weekly data ingestion and quality checks from 150+ sources.
- Designed Tableau dashboards monitoring 10+ KPIs, automating stakeholder reports and saving 10+ hours/month.
- Performed statistical analyses to identify trends and support inventory decision-making.
- Conducted ad hoc analyses to identify inefficiencies in contractor utilization and logistics planning.

Projects

Spotify Genre Clustering for User Personalization — *Python, Flask, MySQL, scikit-learn* Apr 2025 – May 2025

- Led a team to cluster Spotify users based on genre preferences using cosine similarity and agglomerative clustering.
- Developed a web app with Flask and PostgreSQL for real-time data collection and user clustering.
- Applied t-SNE for visualization; identified distinct user clusters to inform personalized recommendations and marketing strategies.

Hepatitis Mortality Prediction Using Machine Learning — *R, scikit-learn, pandas* Apr 2025 – May 2025

- Built a clinical prediction model for hepatitis-related mortality using the UCI Hepatitis dataset.
- Engineered features and trained Decision Tree, SVM, and KNN classifiers; SVM achieved the highest ROC-AUC and sensitivity.
- Assessed fairness across gender groups and applied bias mitigation strategies for ethical deployment.

Mapping Product Similarity in E-Commerce — *Python, scikit-learn, NumPy* Apr 2025 – May 2025

- Preprocessed product data and computed cosine similarity to quantify inter-product likeness.
- Applied t-SNE for dimensionality reduction and 2D visualization of competitive product clusters.
- Generated actionable insights for pricing, bundling, inventory planning, and recommendation strategies.

Superstore Sales Dashboard — *Tableau, Excel* May 2025

- Created an interactive Tableau dashboard analyzing 48 months of sales across 4 regions and 3 customer segments.
- Enabled dynamic filtering and time-based analysis; identified a 12% profit drop due to over-discounting.
- Optimized extract filters to improve dashboard load time by 35%.

Arc Advantage: NBA Three-Point Shot Strategy — *Python, regression analysis, Seaborn* Jan 2025

- Analyzed NBA shot trends from 2000 to 2024 using regression and clustering to identify efficiency and strategy shifts.
- Derived key metrics (eFG%, shot volume, three-point attempt ratios) and visualized strategic insights.

Skills

Languages: Python, R, SQL

Databases: MySQL, PostgreSQL

Tools & Platforms: Tableau, Power BI, Excel, Git

Techniques: Data Cleaning, ETL, Data Visualization, Machine Learning, A/B Testing

Soft Skills: Communication, Critical Thinking, Problem Solving

Leadership / Extracurricular

Phi Delta Sigma Fraternity Inc.

Jan 2023 – Present

Warden & Fundraising Chair

University of Maryland, College Park

- Led fundraising efforts raising \$6,000+ and coordinated logistics for 10+ campus-wide events.