

JARYT SALVO

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PROFESSIONAL SUMMARY

Distinguished Professional Science Master Graduate in Analytics with exceptional academic achievements, including a perfect 4.0 GPA. Demonstrates advanced proficiency in R programming, Python development, and SQL database management, complemented by expertise in Clojure. Proven track record in Power BI and Excel for sophisticated data analysis. Leverages over a decade of global teaching experience to excel in cross-cultural communication and collaborative environments. Currently pursuing a PhD in Data Science, combining technical expertise with strong analytical capabilities.

EDUCATION

Bowling Green State University	Bowling Green, OH
• Doctor of Philosophy (PhD) in Data Science	<i>2024 – Present</i>
• Master of Science in Analytics (<i>GPA: 4.0</i>)	<i>2020 – 2021</i>
• Master of Arts in Cross-Cultural and International Education (<i>GPA: 4.0</i>)	<i>2017 – 2018</i>
• Bachelor of Science in Education, Minor in Mathematics	<i>2011 – 2014</i>

TECHNICAL PROJECTS

Tract-Level Crime Forecasting with Prophet *Spring 2025*

- Developed time-series forecasting models for six crime categories across Toledo neighborhoods
- Implemented Meta's Prophet model to capture seasonal patterns and holiday effects
- Will be presenting findings at 2025 Academy of Criminal Justice Science Conference

Clojure Implementation of PCA Functionally *Fall 2024*

- Implemented PCA and eigendecomposition algorithms using functional programming paradigms
- Developed numerically stable statistical computations using Neanderthal and scicloj.clay
- Validated implementations against scikit-learn with performance optimization analysis

Toledo Crime and Demographics Interactive Dashboard *Spring 2024*

- Built R Shiny application integrating police and census data for tract-level crime analysis
- Implemented interactive maps with demographic overlays and time-series comparisons
- Developed dynamic visualizations for crime rates, population metrics, and police sectors

MLOps and Topological Analysis for Brain Tumor Detection *Spring 2024*

- Architected end-to-end MLOps pipeline using Docker, MLflow, and Apache Airflow
- Implemented continuous model training with multiple algorithms
- Automated data drift monitoring and model retraining system for clinical deployment

Business Intelligence Analytics Platform *Spring 2022*

- Engineered enterprise-grade database implementing Row-Level Security protocols
- Developed executive dashboards for operational workflows and team performance metrics

PROFESSIONAL EXPERIENCE

Bowling Green State University

Graduate Research Assistant

Bowling Green, OH

Jan 2024 – Present

- Developed MLOps pipelines for Toledo Police Department data, implementing automated cleaning and geocoding processes
- Created interactive Shiny dashboard visualizing crime patterns since 2010
- Built time-series forecasting models using Meta's Prophet for tract-level crime analysis

Eswatini Medical Christian University (EMCU)

Computer Science Lecturer, Peace Corps Response

Mbabane, Eswatini

Oct 2022 – Oct 2023

- Managed AI and ML courses via Google Classroom, delivering R-based analytics curriculum
- Supervised undergraduate capstone projects, including National Library System development
- Led EMCU TV YouTube channel as executive director for university outreach

Risk International

Risk Analytics Specialist

Fairlawn, OH

Oct 2021 – Oct 2022

- Built Einstein, an Advisen alternative Risk Management System for client reporting
- Engineered ETL pipelines and Power BI dashboards for multi-line policy benchmarking
- Delivered TCOR analysis and strategic insights for enterprise risk management

Japan Exchange and Teaching (JET) Program

Senior Language Instructor

Sasebo, Japan

Aug 2018 – Aug 2020

- Developed and taught English curriculum for grades 3-9
- Implemented culturally-responsive teaching methods with Japanese faculty
- Led cross-cultural programs for school and community engagement

Peace Corps

Secondary Education Specialist

Luwazi, Malawi

June 2014 – July 2016

- Taught mathematics and English using locally-adapted teaching methods
- Developed teaching materials optimized for resource-limited settings
- Led World Map Project and Malaria Prevention Program community initiatives

TECHNICAL EXPERTISE

Analytics & Statistics: Advanced Regression Analysis, Machine Learning, Neural Networks, Time Series Forecasting, Clustering Algorithms, Factor Analysis, Statistical Hypothesis Testing

Business Intelligence: Project Management, Database Architecture, Decision Optimization, Strategic Analysis, Performance Metrics

Technical Stack: Clojure, R, Python, SQL, Power BI, Tableau, Microsoft SQL Server, Advanced Excel, Data Visualization

Human Element: Cross-Cultural Communication, Educational Leadership, Public Speaking, Team Collaboration, Stakeholder Engagement, Global Perspective, Curriculum Development, Mentoring