JASON WORD

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PROFESSIONAL SUMMARY

Data Analytics & Operations Management graduate specializing in Predictive Modeling, Prescriptive Analytics, and Operations Research. Competent in translating dense relational database architectures into executable pricing and inventory strategies using Python and SQL. Proven track record of auditing complex workflows to uncover inefficiencies, engineering analytical prototypes to support internal corporate frameworks, and manipulating large datasets to minimize risk and maximize operational efficiency.

EDUCATION

TARLETON STATE UNIVERSITY | Stephenville, TX **May 2026**

Master of Science in Management • Concentration in Business Analytics

Core Focus: Econometrics & Forecasting, Prescriptive Analytics & Optimization, Decision Modeling under Uncertainty, Database Design & Integrity, Applied Business Intelligence, Machine Learning & Data Mining.

TARLETON STATE UNIVERSITY | Stephenville, TX **Dec 2024**

Bachelor of Business Administration

TECHNICAL & OPERATIONAL SKILLS

- **Programming & Databases:** Python (Pandas, NumPy, SciPy, Scikit-Learn, NLTK, NetworkX), SQL, SQLite, Relational Database Design
- **Operations Research Methodologies:** Linear Programming, Optimization Constraints, Binomial Simulations, Regression Analysis, Forecasting, Sensitivity Analysis, Clustering, Decision Trees
- **Corporate Operations:** Data-Driven Workflow Evaluation, Regulatory Compliance Auditing, Quantitative Quality Reporting, Process Optimization, Cross-Functional Communications
- **Securities Credentials:** Securities Industry Essentials (SIE), Series 7, Series 63

SELECTED ANALYTICS & OPERATIONS RESEARCH PROJECTS

Project: Airline Customer Segmentation & Dynamic Target Optimization Engine — Graduate Portfolio

- Developed a predictive customer segmentation engine in Python utilizing Pandas, NumPy, and Scikit-Learn to model historical flight booking data, tiered loyalty metrics, and price-elastic passenger habits.
- Formulated multi-variable clustering algorithms (K-Means and Decision Trees) to capture demand elasticity differences between corporate/business travelers and price-sensitive leisure passengers.
- Built an optimization framework simulating promotional yield allocations, bounding marketing spend constraints against predicted load factors to maximize flight segment revenue.

Project: Automated Knowledge Retrieval & Context-Structuring Prototype — Charles Schwab (Internal)

- Engineered a functional data retrieval prototype leveraging Microsoft Agent Builder to systematically parse complex client case histories, reducing time-to-resolution for high-risk trading errors.
- Programmed strict logical boundaries ensuring automated text processing pulled data exclusively from verified regulatory frameworks and approved corporate compliance clearinghouses.
- Conducted rigorous scenario testing and edge-case evaluations to identify and reduce unsupported responses, presenting structural functionality metrics to operations management.

Project: Text Classification & Network Centrality Analysis Framework — Graduate Data Mining

- Cleaned and tokenized unstructured consumer text fields via NLTK; extracted core feature matrices using TF-IDF vectorization and truncated Singular Value Decomposition (SVD).
- Constructed high-dimensional predictive classifiers utilizing Logistic Regression and Gradient Boosting with validation splits to monitor overfitting profiles.
- Modeled complex spatial and relational data arrays as network edge-lists via NetworkX, determining critical node connections using degree centrality, density formulas, and adjacency matrices.

PROFESSIONAL EXPERIENCE

CHARLES SCHWAB | Westlake, TX **2025–Present**

Financial Services Representative & Registered Stockbroker (CS&S Operations)

- Analyze real-time account volatility, structural trading restrictions, margin balances, and order execution logs; cross-reference multi-layered system findings against strict SEC and FINRA regulatory rules.
- Deconstruct high-velocity relational database discrepancies on the operations floor, translating erratic system exceptions into clear, documented data points for higher-tier compliance and risk reviews.
- Identified operational bottleneck trends in real-time information retrieval, driving the conceptualization and testing of the automated data-retrieval prototype subsequently reviewed by operations leadership.

DONOVAN MANUFACTURING | Fort Worth, TX **Sep 2021–Dec 2024**

Package Specialist / Director of Operational Testing

- Collaborated directly with corporate logistics partners (UPS) to evaluate supply chain nodes, execute tactical routing changes, and realize a 47% improvement in regional on-time delivery benchmarks.
- Designed rigorous logistical testing protocols and parameter controls for field implementations; coordinated tracking events, set safety thresholds, and supervised analytical teams of up to 15 field observers.
- Aggregated multi-channel data recordings and workflow audits into formal quantitative reports, directing weekly corporate review panels to optimize manufacturing output quality.

INFRAWARE TRANSCRIPTION | Remote **Sep 2009–Jun 2021**

Independent Logistics & Documentation Contractor

- Processed high-volume, time-critical corporate documentation pipelines for major accounts (including The Hartford), maintaining strict data verification protocols to achieve a 99.7% compliance audit accuracy score.

ACADEMIC RESEARCH & PUBLICATIONS

• Gray, C. A., Word, J. B., et al. “Epigenetic Disruption of Ovine Endometrial Gland Development.” Texas A&M University Undergraduate Journal of Science and Technology 1(2), 12–17 (1997).

• Ott, T. L., et al., including Word, J. B. “Expression of Osteopontin in the Uterus During the Estrous Cycle and Early Pregnancy in Sheep.” Texas Forum on Female Reproduction, Houston (1997 Presentation).