

# Johnny Duenas

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## EDUCATION

### James Madison University

*Bachelor of Science in Integrated Science and Technology, Concentration in Data Science*

Harrisonburg, VA

May 2024

## EXPERIENCE

### Contract Data Reporting Analyst

*International Registries Inc.*

Feb. 2025 – Present

Reston, VA

- Reduced maritime vessel registry errors by 20% using SQL queries in Oracle databases to validate data per registry standards.
- Sped up compliance reports by 30% by working with legal, compliance, and operations teams, using SQL to pull dissolution dates and notes from audit folders for clear reporting.
- Automated archival tracking for 500+ folders monthly with zero errors using Power BI dashboards with KPIs for Iron Mountain archiving.
- Improved legal audit and litigation documentation turnaround by 25% using SQL to standardize vessel records for legal teams.

## PROJECTS

### Facial Recognition Model Optimization | *Python, NumPy, Google Cloud*

2023 – 2024

- Conducted applied data science research on enhancing facial recognition systems in imbalanced datasets, with the thesis that advanced loss functions like Categorical Focal Cross Entropy can effectively mitigate minority class underrepresentation to improve overall model accuracy.
- Implemented machine learning modifications using CategoricalFocalCrossEntropy to address class imbalance, resulting in enhanced model performance on diverse datasets.
- Applied NumPy for efficient dataset preprocessing and size reduction, accelerating training and inference times while maintaining data integrity.
- Deployed the optimized model on Google Cloud Platform, enabling scalable, real-time facial recognition applications with improved efficiency.

### Community Tool Box Analysis | *Python, NLP, Neo4j, OpenKG, GRAKN.AI*

2023 – 2024

- Analyzed a University of Kansas Community Tool Box dataset (2,000+ questions, 2003–2021), identifying that 40% of queries sought existing resources, indicating a user awareness gap.
- Proposed a Q&A chatbot using knowledge graphs with Neo4j, OpenKG, or GRAKN.AI to map toolkit relationships, delivering tailored answers to reduce repeat questions by 20%.

## TECHNICAL SKILLS

**Languages:** Python, SQL, HTML/CSS

**Frameworks:** Power BI, Fabric, Tableau

**Developer Tools:** SQL Server, AWS, Azure, Git

**Libraries:** NumPy

**Skills:** Database Management & Design, Database Optimization, Data Analysis, Machine Learning, Data Modeling, Data Reporting

## CERTIFICATIONS

Power BI Data Analyst Associate

Fabric Analytics Engineer Associate (In Progress)