

DENI VELASQUEZ

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Bethlehem, PA | 484-767-8927

Education

B.S Computer Science - Moravian University, May 2025  
GPA: 3.62

Work Experience

Data Product Team Member (Capstone - Merck) Murrilations 01/2025 – present

- Designed and optimized SQL schemas for Amazon Aurora DB, structuring regulatory datasets for efficient querying.
- Developed and maintained data pipelines to ingest and analyze regulations.gov dockets, supporting regulatory insights.
- Implemented AWS OpenSearch to build a search engine tailored for data journalists, enabling fast retrieval of regulatory information.
- Utilized AWS S3 buckets to store and manage large volumes of docket data for scalable access and processing.
- Applied SQL and Python for data cleaning, transformation, and feature extraction, enhancing search performance.
- Followed Agile development and leveraged GitHub workflow for collaborative version control and project management.

Data Science Intern MIAC Analytics 03/2023 – 08/2023

- Conducted research on record linkage methodologies, analyzing techniques for entity resolution and data deduplication to inform model development.
- Performed data cleaning and preprocessing, applying standard techniques to improve data quality and ensure consistency in training datasets.
- Developed and evaluated machine learning models for record linkage, utilizing a train-test split approach on datasets to measure model effectiveness.
- Designed and implemented unit tests to validate the accuracy and reliability of model integration.
- Integrated the record linkage model into a production environment, optimizing its performance for real-world applications.
- Presented final project outcomes in an Agile sprint review, demonstrating model performance, integration strategies, and key insights to management.

Software Developer Intern MIAC Analytics 08/2023 – 12/2023

- Developed and optimized backend components for the company’s software, improving system efficiency and maintainability.
- Refactored and fine-tuned code dependencies, ensuring integration between internal services and external APIs.
- Designed and implemented data pipelines, facilitating efficient processing of large datasets.
- Transitions to frontend development, enhancing UI/UX by implementing new features and fixing bugs.

Projects

Owner/Founder Haven Application 11/2024 – present

- Founded and leading the Haven App development team, driving the project vision, feature prioritization, and strategic decisions
- Managed recruitment, task delegation, and team coordination, fostering a collaborative environment to meet project deadlines.
- Designed and developed a community-driven social platform featuring interest-based group channels and user avatars.
- Implemented Firebase authentication, real-time chat, and cloud-based storage for seamless user interactions.
- Used Agile methodologies and GitHub Projects to coordinate a small team of developers.

Honors and Recognition

- Internship Excellence Award (04/2023): Recognition for Outstanding Achievements and Performance
- Department of Defense Award for STEM Education (01/2023 – 06/2023)
- Intern Highlight at BKWeb Productions (05/2023): Dedication to Excellence and Exceeding Expectations
- Charles H. Davison Memorial Scholarship Endowment in Electronics & Information Systems