

Larry Miguel R. Cueva

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TECHNICAL SKILLS

Core Competencies: Data Cleaning/Preprocessing | Web Scraping | Data Warehousing | Data Modelling | ETL | Data Orchestration | Cloud Infrastructure | Data Analysis | APIs
Languages & Tools: Python | SQL | Spark | Azure Cloud Services | PowerBI

EXPERIENCE

- Virtuals Protocol**
Data Engineer, Intern

Dec 2024 – Jan 2025

 - Cleaned and processed more than 500k rows of data for various retrieval augmented generated (RAG) AI agents.
 - Developed and wrote scripts automating data ingestion processes of RAG AI agents and pulling raw datasets uploaded by users diverting main workflow to data transformation.
- Creative Dynamix Solutions, Inc.**
X++ Developer, Intern

Sep 2022 – Oct 2022

 - Utilized AnyDesk in tunneling through remote virtual machine for reporting tasks
 - Developed and queried data to enhance sales reporting using PowerBI and X++

PROJECTS

- eda-denoiser-stress-detector** | *React.js, D3.js, Flask, Scikit-Learn, Tensorflow, Docker*

 - Enhanced the accuracy and reliability of bio-signal denoising and stress detection by developing a novel hybrid LSTM-SVM deep learning model, addressing critical challenges in bio-signal data analysis. Link to research: <https://aristodemus8-eda-denoiser-stress-detector.hf.space/>
 - Engineered and deployed a full-stack web application demonstrating the utility and potential of the validated LSTM-SVM model in real world health monitoring applications.
 - Validated model performance of 90% AUC & 78% accuracy in biosignal denoising, providing a robust foundation and methodology for future bio-signal research and potential diagnostic tools.
- signal-gender-predictor** | *SQL, DuckDB, Librosa, Azure Data Lake, Azure Data Factory, Airflow, Terraform*

 - Developed an end-to-end MLOps pipeline for a gender prediction model API based on audio signals, reducing cloud operational costs by over 70%, leveraging cloud only for compute during extraction and storage. Link to API: <https://aristodemus8-signal-gender-predictor.hf.space/>
 - Automated the ingestion, transformation, and feature engineering of large-scale audio datasets, generating high-quality features for model training and serving.
 - Architected and implemented a scalable multi-stage data pipeline to efficiently process 3.7 billion rows of audio signals, generating high-impact features for voice-based gender prediction, providing a framework for real-time audio analytics and a foundation for voice-based AI applications.
- chronic-disease-analyses** | *SQL, PowerBI, Apache Spark, Airflow, Selenium, S3, DuckDB, Docker, Terraform*

 - Processed and transformed 20 years of comprehensive US public health data (from 2001-2021) using Spark, consolidating disparate datasets to quantify chronic disease cases and population figures. Link to project: <https://chronic-disease-analyses.vercel.app/>
 - Conducted analysis of chronic disease data to identify most prevalent disease, allowing for potential in more targeted interventions and improving cost efficiency for less prevalent diseases

EDUCATION

- Polytechnic University of the Philippines**
Bachelor of Science in Computer Science

Aug 2019 – Mar 2025

 - 1.9 GPA