

# Larry Miguel R. Cueva

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## SUMMARY

A recent Computer Science major, driven to grow more in the field of Data Engineering. I am an analytical thinker, skilled in orchestrating scalable data pipelines for analytics and AI. The recent projects & internships I had allowed me to learn more about big data processes and I believe it would be beneficial for the junior roles in Data Engineering or Analytics I am currently seeking.

## EXPERIENCE

<b>Virtuals Protocol</b> <i>Data Engineer, Intern</i>	<b>Dec 2024 – Jan 2025</b>
<ul style="list-style-type: none"><li>Cleaned and processed more than 500k rows of data for various retrieval augmented generated (RAG) AI agents.</li><li>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.</li></ul>	
<b>Creative Dynamix Solutions, Inc.</b> <i>X++ Developer, Intern</i>	<b>Sep 2022 – Oct 2022</b>
<ul style="list-style-type: none"><li>Utilized AnyDesk in tunneling through remote virtual machine for reporting tasks</li><li>Developed and queried data to enhance sales reporting using PowerBI and X++</li></ul>	

## PROJECTS

<b>eda-denoiser-stress-detector</b>   <i>React.js, D3.js, Flask, Scikit-Learn, Tensorflow, Docker</i>
<ul style="list-style-type: none"><li>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: <a href="https://aristodemus8-eda-denoiser-stress-detector.hf.space/">https://aristodemus8-eda-denoiser-stress-detector.hf.space/</a></li><li>Validated model performance of 90% AUC &amp; 78% accuracy in biosignal denoising, providing a robust foundation and methodology for future bio-signal research and potential diagnostic tools.</li></ul>
<b>signal-gender-predictor</b>   <i>SQL, DuckDB, Librosa, Azure Data Lake, Azure Data Factory, Airflow, Terraform</i>
<ul style="list-style-type: none"><li>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: <a href="https://aristodemus8-signal-gender-predictor.hf.space/">https://aristodemus8-signal-gender-predictor.hf.space/</a></li><li>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.</li></ul>
<b>chronic-disease-analyses</b>   <i>SQL, PowerBI, Apache Spark, Airflow, Selenium, S3, DuckDB, Docker, Terraform</i>
<ul style="list-style-type: none"><li>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: <a href="https://chronic-disease-analyses.vercel.app/">https://chronic-disease-analyses.vercel.app/</a></li><li>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</li></ul>

## TECHNICAL SKILLS

<b>Core Competencies:</b> Data Cleaning   Web Scraping   Data Warehousing   Data Modelling   ETL   Data Orchestration   Cloud Infrastructure   Stream Processing   APIs
<b>Languages &amp; Tools:</b> Python   SQL   Azure Cloud Services   Spark   Kafka Streaming

## EDUCATION

<b>Polytechnic University of the Philippines</b> <i>Bachelor of Science in Computer Science</i>	<b>Aug 2019 – Mar 2025</b>
<ul style="list-style-type: none"><li>1.9 GPA</li></ul>	