Gian Membreño

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EDUCATION

NEW YORK INSTITUTE OF TECHNOLOGY - *Bachelor of Science*　　　　*New York City, New York*
Major: *Computer Science; Concentration in Big Data Management and Analysis*　　*August 2019 — May 2023*
Cumulative GPA: ***3.5/4.0 - 3 Deans List Awards***
- Relevant Coursework:
  - **Operating Systems -** Programmed a Round-Robin CPU scheduling simulation in Java.
  - **Design/Analysis of Algorithms -** Modeled the Traveling Salesmen problem and its computational complexity.
  - **Programming Lang. -** Developed a IOS App to recommend daily attire according to weather conditions.
  - **Software Engineering -** Designed a Web-app using MERN for Highschool students to gain financial literacy.
  - **Database Management -** Created a platform for Rating Music using the Gliko Rating System.
  - **Data Management -** Analyzed sentiment across Twitter using Hadoop MapReduce.
  - **Distributed Database Systems -** Working on paper for Relational Data Organization.
  - **Data Mining –** Engineered visualization of heart disease dataset for pattern recognition.
  - **Information Retrieval –** Computed a Web crawling program for text data processing using NLTK.
  - **Senior Project -** Built a speech emotion recognition tool with Machine Learning.

ESCUELA INTERNACIONAL SAMPEDRANA - *Highschool*　　　　*San Pedro Sula, Honduras*
Cumulative GPA: ***3.6/4.0***　　　　　　　　　　　　　　*Sept. 2015—June 2019*

PROFESSIONAL EXPERIENCE

Geospace Technologies　　　　　　　　　　　　**New York City, New York**
Global, publicly traded design, engineering, and manufacturing company.
Information Technology Summer Intern　　　　　　　*June 2022 – September 2022*
- Enhanced a current **VB.Net** application by adding parsing of nested encapsulated XML data for insertion to new **SQL** tables without needing to leave the application.
  - Resulting in 13% decrease in downtime for the Data team.
- Automated the accounting department's process from using forms into a new **VB.Net** application that enabled easier user access and deeper data collections for auditing.
  - Over 100 clients gained more in-depth information, decreasing mismanagement costs by 1%.
- Deployed application using **Azure DevOps** pipelines into the company's production directory.

Tuunl　　　　　　　　　　　　　　　　**San Pedro Sula, Honduras**
Platform for low-income businesses to store and sell product.
Founder　　　　　　　　　　　　　　　　　*July 2020 – July 2021*
- Designed all the webpage's UX/UI using **HTML**, **CSS (Bootstrap)** as well as **JavaScript** to add dashboard functionality and responsiveness.
- Managed **SQL** database inventory and users using **PHP** hosted on **Bluehost** server.

Trans-Express　　　　　　　　　　　　　**San Pedro Sula, Honduras**
Leading Logistics company in Honduras
Chief Data Management Intern　　　　*April 2019 – August 2019 // April 2020 – August 2020*
- Operational Auditing of **Excel** spreadsheets for warehouse inventory.
  - Switched from manual to automatic population of data, reducing 3 daily work hours per worker.
- Modernized tax calculations using **Python** and **Pandas** to visualize sectional costs.
  - Allowed representation of data, reducing mistakes by 4%
- Enhanced **SQL Database** that catalogued cargo details.
  - Manipulation of tables and datatypes which saved about $10,000 monthly in server expenses.

SKILLS & PROJECTS

Languages: Native English, Native Spanish, Elementary French
Computer Languages: Java, Python, JavaScript, Swift, HTML, CSS, VB.NET, BASH
Databases: MongoDB, SQL, PHP, Firebase