# PhilipSanM

✉ **phlpsnm**@gmail.com          ⬤ @PhilipSanM          🌐 philipsanm.github.io

## EDUCATION

**Artificial Intelligence Engineering, B.S.** | Superior School of Computer Science (ESCOM  IPN)

Relevant courses include: Theory of Computation, Machine Learning, Bio-inspired Computing, Artificial Vision, Design and Analysis of Algorithms, and Advanced Mathematics for Engineering.

**Aug 2021- December 2025**

CGPA: 87 out of 100 (3.3/4)

**Digital System, Technical Degree** | Center of Scientific and Technological Studies #9 (IPN)

Relevant courses include: Programmable Microelectronics, Microcontrollers and Microprocessors Architecture, and Physics.

**Aug 2018 - July 2021**

CGPA: 90 out of 100 (3.7/4)

## MAJOR PROJECTS

### SAGUAC

- **Reduced CO2** emissions **at Grupo Modelo** (a Mexican brewery) by implementing a new method to **reuse water** from the beer production process.  Ensured its safety and security by deploying a **ML model** based on **DBSCAN** to detect anomalies in the pipes.
- **Collaboratively** participated in **CHELATHON 2023**, a Hackathon hosted by Grupo Modelo, and got **2nd place** among more than 100 presented projects.

### Bubble_Nursery Web App ↗

- A web application developed collaboratively within a team, utilizing the **MEVN Stack** (**MongoDB, Express.js, Vue, and Node.js**) to streamline the administration of a children's daycare center.
- Hosted on Azure, it embraces an Agile methodology (**SCRUM**) alongside a traditional approach (Unified Process - **UP**).

### bitacora-diarIA ↗

- Developed an intelligent journal assistant by **encoding a personalized word2vec** using the **CBOW algorithm** and a Spanish corpus for word embedding. Implemented an **RNN** for generating responses and aiding the author in journaling throughout the day.

**To check out more of my projects, please feel free to visit my own portfolio at** philipsanm.github.io ↗

## LEADERSHIP AND AWARDS

- **Alpha Microsoft Learn Student Ambassador**  2022 - 2023
  - Collaborated as a speaker in the Microsoft Learn AI Skills Challenge, delivering a workshop on "**Using an Azure Machine Learning job for automation**" impacting over 120 attendees across Latin America. ↗

- **IBM Z Student Ambassador Captain** 2022 - 2023
  - Led impactful technology activities focused on Z Systems to promote learning and innovation for over 60 students worldwide by incorporating practices in **IBM Cloud** for **AI** and **Z Mainframe** for **Bash and Python scripting**.

- IBM **Speaker at IBM zDay**  September 2022
  - Presented on the topic of churn rate in clients for banks by using a **ML mode**l based on **random forest.**

- **ICPC** 2022/2023 **Grand Price of Mexico** ↗
  - Ranked 256th out with **honorable mention**

## TECHNOLOGIES

- Git
- SQL
- inux
- Vim
- Scikit-learn and TensorFlow (Currently learning)
- Pandas and Numpy

## COURSES AND APPRENTICESHIPS

- **IBM Z Xplore** student, platform by **IBM, IBM Z Xplore Concepts** and **Advanced IBM Badges.** ↗
- **Open MAINFRAME project Education** apprentice and collaborator. ↗
- **Japanese-Language Proficiency N5** Certification, **Japanese 70%.** ↗
- **English** (fluent).
- **Google Cloud** Computing Foundations Academy Certificate and **Google Cloud Academy** - Badges about **GCP**.

## PROGRAMMING LANGUAGES

**2 Years:**
   **Python 3** mainly for AI and DC, and leetcode problems

**1 Year:**

   **Julia 1.9.0** mainly for Artificial Vision.

**3 Months:**

   **Java JDK 17** used in mainframe task and practices.
   **R** Used for data analysis.