Felipe Sanchez Martinez

in   @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- July 2025
CGPA: 87 out of 100 (3.3/4)

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

Relevant courses include Digital and Analog Electronics, 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.

For a list of +5 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 model** based on **random forest.**

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

TECHNOLOGIES

- Git
- PostgreSQL
- Linux
- 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-Languaje Proficiency N5** Certification, **Japanese 70%** ⬀
- **English** (fluent)
- **Google Cloud** Computing Foundations Academy Certificate and **Google Cloud Academy** - Badges about **GCP**. ⬀

PROGRAMMING LANGUAJES

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