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EDUCATION

B.S of Computer Science

Facultad de Ciencias – Universidad Nacional Autónoma de México

August 2019 – June 2023

- GPA: 9.05 / 10

PROJECT SUMMARY

Twitter Data Analyser

<https://github.com/DavidHdezU/TwitterDataAnalyser>

June 2021

- This project aims to fetch Twitter data such as posts and posts replies, and analyse this data, it show things like most common words used in replies to an user, most mentioned organizations, data sentiment analysis, compare users data. It still in development and looking forward to implement new features.
- Developed using Python and libraries such as Numpy, TextBlob, NLTK, Spacy, Matplotlib and Pandas.

Shamir Secret Sharing Scheme

<https://github.com/DavidHdezU/ShamirSecretSharingScheme>

December 2020

- This project is an implementation of the Shamir Secret Sharing Scheme to encrypt files using Lagrange Interpolation Polynomials and Finite Fields in order to have better protection encrypting files
- Developed using Python and libraries such as Numpy and Pycryptodome.

Cloud Coverage Index Reporter

<https://github.com/DavidHdezU/Cloud-Cover-Index-Reporter>

November 2020

- A program that receives an image as input and calculates the Cloud Coverage Index from the image.
- Used the OpenCV library to manipulate each pixel from its RGB components and thereby select which pixels can be considered as clouds using a binary mask.
- Developed using Python with OpenCV and Numpy libraries

Weather Reporter

<https://github.com/DavidHdezU/WeatherReport>

October 2020

- A CLI program used to obtain weather information from a given dataset of flight tickets.
- Used ThreadPoolExecutor to optimize the time execution, due to the limit rate from the API
- Developed using Python and OpenWeatherMap API

Find Me A Pal - Local Hack Day - Build

https://github.com/DiXap/LocalHackDay_Raccoons2019

November 2019

- Part of the development team of a hackathon project (third place) to build a website to help dogs in shelters find a new home.
- Developed using JavaScript, HTML and CSS

PROGRAMMING

Python

Profficient

Java

Intermediate

C++

Intermediate

LANGUAGES

Spanish

Native

English

Advanced

French

Advanced

AWARDS

HACK Latam - Microsoft

Top 12

February 2021 Mexico City, Mexico

ICPC 2020

Participant

September 2020 Mexico City, Mexico

Local Hack Day - Build 2019

Third place

November 2019 Mexico City, Mexico

UNAMxHacks Hackathon

Participant

October 2019 Mexico City, Mexico

SKILLS

Linux

Data Structures

Git

Team Work

Consistent

Learning Potential

Multitasking

OOP