Sergio André López Pereo

< DATA SCIENCE >

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Enjoy learning and new challenges

EDUCATION

Computer Science
Instituto Tecnológico de Estudios Superiores de Monterrey
01/2019 - 06/2021

Data Science
Instituto Tecnológico Autónomo de México
01/2021 - 12/2025

WORK EXPERIENCE

- **Programmer**
  Centro ITAM para Datos + Algorítmos *(08/2021 - Present)*

  < Completed tasks >
  Web scraping using Selenium and BeautifulSoup
  Data filtering
  Creation of ETL architecture for data visualization
  Use the python implementation of the EAST algorithm
  (Efficient and Accurate Scene Text Detector, forked from the original project)
  and process images with Pillow to feed it to TesseractOCR

- **Frontend developer**
  Unkafi   *10/2020 - 10/2022*

  < Completed tasks >
  Designing the application flow using ReactRouter
  Development of a centralized state management using react native
  Fixing native library problems inside Objective C and Java

- **Programming mentor**
  Workplace/Company *08/2018 - 06/2019*

  < Completed tasks >
  Tracking targets using python OpenCV library
  Analyze information using python ml libraries

PERSONAL PROJECTS

ETL for virtual market (08/2020 - Present)
- Data extraction using python and AWS Glue
- Data processing using PySpark and Hadoop
- Data storing using the NoSQL database ScyllaDB
- Setting up the VPC environment for the different components
- Data visualization using ReactJS and FastAPI
- User management with the OAuth2.0 standard

SKILLS

Python   Java   Git

Cloud Firestore   Gitlab

FastAPI   Docker Compose

Data Structures   Postman

MySQL   MongoDB

Firebase   Postgre SQL

Django Rest   AWS Glue

PySpark   Hadoop   BS4

ScyllaDB   Docker

INTERESTS

Data Analytics
Games Theory
ML
Web Scraping
Simulation
Distributed Systems
Data Engineering