

Abraham Moisés Cercas Ramírez | Data Engineer

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ABOUT ME

As an avid tech enthusiast with a flair for creativity and pragmatism, I thrive on tackling complex challenges and delivering effective solutions. My journey in the tech world has been marked by a relentless pursuit of knowledge and a knack for problem-solving. I have a strong interest in Big Data, AI, Containerization and Backend Development.

EDUCATION

Bachelor's Degree Bionics Engineering - Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas | JAN 2019 - DEC 2024

Technician Degree in Digital Systems - Centro de Estudios Científicos y Tecnológicos 1 IPN | AUG 2015 - JUNE 2018

EXPERIENCE

Bancomer - Data engineer | **Python, Scala, Spark, HDFS, Dataproc, Bitbucket, Jenkins, Control-M Scrum** | JAN 2024 - TODAY

In my role, I analyze client requirements, documenting them thoroughly before retrieving the necessary data from our HDFS data lake. Leveraging Pyspark and Spark (Scala), I process this data and implement business rules effectively. Rigorous unit and acceptance testing is then applied to ensure the application's reliability. Deployment is managed seamlessly through Bitbucket, Jenkins, and Dataproc. Finally, I orchestrate scheduling using Control-M, operating within DevOps and Scrum frameworks.

Minsat - Data Academy | **Python, Scala, Spark, SQL, Dataproc, Jira** | NOV 2023 - DIC 2023

I completed training at an academy where I learned valuable skills in various technologies and frameworks. This included becoming proficient in Sapark, using its Python and Scala tools to handle data processing tasks across distributed systems efficiently with the Dataproc SDK. I also mastered Scala, which empowered me to build data solutions using functional programming techniques. Additionally, I gained hands-on experience in project management through Scrum methodologies, utilizing tools like Jira to stay organized and track progress effectively.

Concard - Backend developer | **Python, React Native, MySQL, SQLAlchemy, FAST API, Linux** | APR 2023 - JUL 2023

Contributed to the development of a React Native app for sales and inventory management in stores. It connects to a remote database and enables local sales registration, syncing data when the network is available. Developed a Python API that receives the requests from the mobile application and interacts with the MySQL database using SQLAlchemy.

Banorte / Tecnostaff - Analyst | **SQL, Excel, Visual Basic, Windows** | JUN 2018 - FEB 2019

Restored the function of the blocked ATMs by sending remote commands. Later, managed the database where the issues were recorded, creating and editing SQL VIEWS to generate reports about the performance of the department and the global status of ATMs. Developed Excel macros and SQL scripts to transform information that was in .xlsx files.

PROJECTS

tetris_ai | **Python, Pandas, Scikit-learn, Pygame, Linux** | [github repository](#)

An artificial intelligence that plays Tetris. The first step was to create a copy of the original game to access the variables that represent the state of the game, then generate numerous random games. Finally train a model, using these random games that is capable of choosing the best next of each new block. Using Python and scikit-learn.

manger | **Python, Bash, Requests, BeautifulSoup, Git, Linux, Windows** | [github repository](#)

Manger is a CLI tool for downloading manga from web pages. It's capable of downloading a single chapter, a range of chapters or a complete manga and converting each chapter to PDF. Using Python, Requests and BeautifulSoup manager webscrape the index of the manga pages and only downloads the scans in the correct order excluding other images.

SKILLS

Cloud: Google Cloud Platform, Azure, Dataproc

Programing languages: Python (Scikitlearn, Pandas, FastAPI), Scala, C++, C, Java, JavaScript

Databases: PostgreSQL, MySQL, Firebase, Neo4j, MongoDB

Big Data: Spark, HDFS

CERTIFICATIONS

Scrum Developer - ScrumStudy | JAN 2023 | [certification link](#)

Scala & Functional Programming Essentials | Rock the JVM - Udemy | DEC 2023 | [certification link](#)

Análisis de datos con Python - Platzi | JUL 2023 | [certification link](#)

