JULIEN MARCHADIER
Data Analyst / Data Engineer

Open to jobs in space industry

GET IN TOUCH

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🌐 https://j-marchadier.github.io/

LANGUAGE SKILLS

FRENCH
- Mother tongue

ENGLISH
- Fluent, lived 5 months in Irvine CA

SPANISH
- High School level

DATA SKILLS

Python
- Created ETL : from Excel to Data Base
- Data analysis (pandas)
- Deep Learning on time series
- Created a dashboard from dirty data with Plotly
- Developed an AI for the PAC-MAN game.
- Created a fire prediction system using AI and data analysis on several sensors.

Spark
- Created pyspark & SQL pipelines
- Execute distributed queries

SQL
- Querying and optimizing a MySQL database

R
- Created a dashboard from dirty data

Hadoop
- Create an Hadoop Cluster for an ETL

WORK EXPERIENCE

Airbus Aircraft : Data Analyst & Data Engineer for Manufacturing
SEPTEMBER 2023 - NOW FULLTIME   *TOULOUSE, FRANCE*
- Built and used :
  - knowledge of Aircraft engineering and manufacturing
  - cross country & sector network
  - efficient data analyses (pyspark & python)
  in order to create useful <u>decision making's KPIs</u>
- Lead a workload prediction project.

Airbus Defense & Space : Data Scientist in Cost Engineering team
FEBRUARY - AUGUST 2023 INTERNSHIP   *TOULOUSE, FRANCE*
- Proposed, designed and developed an ETL with python to bring added value on communication satellite costing data : accessibility / prediction / trends / comparison
- Created Dashboards with QlikSense and PowerBI
- Vulgarized and presented data science to the Board
- Acquired transversal knowledge on satellite sector

Prooftag : Data Scientist Intern
MAY - JULY 2022 INTERNSHIP   *MONTAUBAN, FRANCE*
- Developed an ETL (Extract Transform Load) with Apache Hadoop, Apache Sqoop and Microsoft Power BI in parallel of a RDBMS (Relational DataBase Management System)
- Implemented and maintained the architecture and integrity of a Hadoop cluster
- Created Dashboards on Power BI

BEENETIC Systems : IoT Intern
SEPTEMBER 2020 - OCTOBER 2020 INTERNSHIP   *TOULOUSE, FRANCE*
- Designed and developed a Bluetooth Low Energy BLE communication structure between an IOS device and a Raspberry
- Integrated pressure sensors via I2C bus
- Developed a BLE interface, in C++, on an ESP-32 micro controller

EDUCATION

UCI University of California, Irvine
SEPTEMBER - DECEMBER 2022 *IRVINE, CALIFORNIA USA*
- Accelerated Certificate Program in data science
- Courses in Python, Maths, Statistics, Probabilities, Data science, Big data, Advanced Visualization.

ESIEE Paris : Engineering University
SEPTEMBER 2018 - AUGUST 2023 *CHAMPS SUR MARNE, FRANCE*
- Electronics - Computer Science school
- Graduated of a five-year combined B.SC -M.SC in Engineering
- Specialized in Data Science and Artificial Intelligence

LE FERRADOU : High School
SEPTEMBER 2015 -JUNE 2018 *TOULOUSE, FRANCE*
- National Secondary School Diploma specialized in Maths & Physics - Awarded with honors *(Baccalaureate)*

TECHNICAL SKILLS

Excel / PowerBI
- Manage data and interactive dashboard

Github
- Version control tool with CD/CI use for all my projects

Docker
- Container managment tool use in all my projects

C++ Language
- Programmation of an optimization algorithm

C Language
- Programmation of Morphological Image Processing algorithms

SOFT SKILLS

Supporter of failure

Curious

Enterprising

Adaptability

Rigorous

PROJECTS

Fire Prediction

JULY - 2021 SCOLAR PROJECT   *PARIS, FRANCE*

- FireProtect is a home fire prevention system prevention system in the framework of smart homes.
- Collect several data with sensors in order to prevent a fire as soon as possible.
- Developed a BLE interface in C++ on an ESP 32 micro controller
- Developed a BLE interface in python on a Raspberry PI
- Managed a TimeSeries DataBase from sensors
- Created a Dashboard of receive data
- Development of a supervised artificial intelligence to alert abnormal situations in real time.

Cryptocurrency Visualisation

JAN - 2022 SCOLAR PROJECT   *PARIS, FRANCE*

- Extraction, storage and visualization of crypto-currency data from 3 different websites.
- Developed of a scraping program to retrieve data from specific websites.
- Manage a MongoDB DataBase server
- Created a interactive website to display dashboards

My Own DataBase

JAN - 2022 PERSONAL PROJECT   *TOULOUSE, FRANCE*

- Storage and vilsualized my own healthy data
- Managed a relational DataBase server on MySQL
- Created a simple interactive dashboard

INTERESTS

INTERESTED IN NEWSPACE :
- SpaceX (Falcon 9, Startship, Starlink ...)
- Blue Origin (new shephard)
- ESA (Ariane 6)

ASSOCIATION
- ESIEE Student Union Treasurer : responsable of 250.000€ budget - Liaising with school administration - Requires strong communication & negotiation skills

SPORT
- Volleyball (regional league runner-up)
- Tennis (competition)
- Sailing (level 3 of *French sailing federation*)
- Diving (level 1 of *CMAS | PADI Open Diver*)
- Skiing (Highest level of *French skiing federation*)
- Hiking (Finish the hardest hike in Europe in Corsica)

BLOCKCHAIN - CRYPTOCURRENCY
- Creating and upgrading my own blockchain

References available on request