# Marc Giannuzzi, Software Engineer

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LINKS

GitHub
Linkedin

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EXPERIENCE

January 2023 — *present*

### Visian — Machine Learning Engineer
La Défense, FR

*Context:* Visian is a **consulting** company specializing in large-scale data projects. My video presentation: Youtube

- Recruitment of technical profiles (Data Engineers, Data Scientists, Devops, Fullstack)
- **Leadership of the Pysquad project**, developing digital projects internally
- Coordination of the generic implementation of a **generative Artificial Intelligence** (AI) project for various inference tasks (textual, vision, multimodal etc...) using Azure ML/DL services and Azure AI Studio
- **Creation of a data platform** to help sales retrieve data on missions, prospects, clients, consultants etc.

*Skills:* Docker · Azure AI Studio · Django · Streamlit · PowerBI · FastAPI · Elastic Stack (ELK) · AWS RDS · Redis · AWS Code Artifacts

January 2023 — *present*
### Engie — Data Consultant
Paris, FR

*Context:* Engie is the leading supplier of natural gas and green electricity, as well as the third largest global group in the energy sector. **Data Engineer** part of the agile team (5 people) developing the products Mon Bonus Engie / Ecodefi+, ICE (Impact Carbone Elec) and Dynamic Eco-gestures evolving in the SAFe framework

- Ecodefi+ (Mon Bonus Engie) is a free service offering individuals rewards for their energy sobriety during challenges (**300k clients**)
- ICE (Impact Carbone Elec) allows clients to **analyze future carbon consumption peaks and adapt their consumption** accordingly (**1M clients**).
- Dynamic Eco-gestures helps explain the impacts of electrical objects in households (**1M clients**)

**Missions**

- Implementation and development of products
- Large-scale data management (databases, flow orchestration...)
- Development of technical and functional KPIs
- Monitoring and Alerting of solutions
- Creation of REST APIs ( 100k calls/day), latency < 1sec
- Scaling of Deep Learning algorithms (DeepAR, Temporal Fusion Transformer...)
- Participation in AWS microservices architecture and digital platforms
- Optimizations (memory, execution time, refactoring...)
- Database flow optimizations (structure, index...)
- Automated reporting via SNS
- Gitlab CICD
- Writing roadmaps as part of the migration of a central technology used for several years within the SAFe train
- Participation in technical-functional architectures

*Skills:* c3ai · JavaScript · Jenkins · AWS Lambda · Amazon Kinesis · Databricks · Elastic Stack (ELK) · Python (programming language) · AWS S3 · Terraform · Amazon CloudWatch · Splunk · MLflow · Amazon DynamoDB · TIDB · Apache Airflow · Amazon Simple Queue Service (SQS) · Amazon Simple Notification Service (SNS)

| August 2021 — October 2022 | **Aqua Digital Rising — Lead Data Scientist** | Paris, FR |

*Context:* <u>Aqua Digital Rising</u> is a **fintech startup** that aims to revolutionize sports betting by analyzing all player and team statistics.

**Data management**

- Management of storage (creation, structuring, cleaning) of several databases (MongoDB, SQL server, HDF5) from data retrieved by Sport Radar and Opta providers
- Structuring of data flows in Python through the different components of the architecture and optimization of reading speed thanks to SQL Server indexes (several hundred GB)
- Creation of a highly configurable REST API allowing the front-end team to retrieve database aggregations and other static information
- Temporary backups of API query results using Redis
- Real-time updates of statistical data using RabbitMq
- Analyses and data visualization
- Machine learning algorithms (clustering) and visualizations for analyzing player and team statistics

**Other missions**

- Configuration of various Azure services (Azure Functions, Azure Web Services, Azure Artifacts, Azure Pipelines, Azure Keyvault) in line with the company's Cloud strategy
- Quantitative analyses of cryptocurrencies with InfluxDb to inform investment strategy
- Coordination of 2 engineers (a data scientist and a front-end developer)

*Skills:* Microsoft SQL Server · Scikit-learn · Redis · JIRA · RabbitMQ · Databases · InfluxDB · Bash · MongoDB · Microsoft Azure

| February 2021 — July 2021 | **Orange Business Services — Data Scientist** | Paris, FR |

*Context:* <u>Orange Business Services</u> is a **consulting** company in digital transformation for communication projects.

- Analyses and diagnostics of VoIP network anomalies, particularly with machine learning (clustering)
- Creation of a dynamic VoIP network graph with Kibana then Neo4J for easier visualization, integrated into a web page
- Analyses of Devops metrics (CPU usage, storage...) of an Elastic server cluster
- Automation of Elastic log deletion with log4j

**Note:** VoIP = Voice over Internet Protocol is a network that allows phone calls via the Internet
*Skills:* HTML · Scikit-learn · Elastic Stack (ELK) · Cascading Style Sheets (CSS) · Python (programming language) · Neo4j · JavaScript · Databases · Bash

| August 2020 — March 2021 | **Digiberries — Software Engineer** | Paris, FR |

*Context:* <u>Digiberries</u> is a **web referencing agency**, improving clients' SEO strategies.

- Development of a script allowing automation of Excel report creation from Google Ads data
- Creation of an SEO analysis tool and automated PDF report creation with Lighthouse and NodeJS packages
- Email sending automation

*Skills:* Lighthouse · Python (programming language) · Google Ads · Node.js

| April 2020 — August 2020 | **Eudonet CRM — Data Scientist** | Courbevoie, FR |

*Context:* <u>Eudonet</u> **develops CRM software** in a B2B context.

- Implementation of the Elastic suite (ElasticSearch, Kibana, Logstash + Filebeat) for analyzing Windows IIS log files
- Creation of a monitoring tool with dynamic dashboards in Kibana
- Creation of a Python algorithm for detecting decrease in CRM usage by clients. Use of the FBProphet library
- Creation of a dynamic web platform (Javascript, Node.js) allowing visualization of the results of the previous algorithm
- PowerBI visualizations for internal management of employee projects
- Creation of powershell scripts for managing IIS applications
- SQL queries for creating reports on client usage and modifying parameters
- Weekly agile sprints

*Skills:* Microsoft SQL Server · HTML · Windows PowerShell · Elastic Stack (ELK) · Cascading Style Sheets (CSS) · Python (programming language) · Microsoft Power BI · JavaScript · Databases · Bash

| July 2019 — Sept. 2019 | **Veesion — Software Engineer** | Paris |
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<u>Veesion</u> is a French scale-up aiming to **automatically detect thefts** in supermarkets.

- Creation of an internal platform allowing real-time visualization and labeling (to improve the company's theft detection algorithm) of videos with Django
- Classification of data allowing the learning of the computer vision model Veesion is a French scale-up aiming to automatically detect thefts in supermarkets.
- Creation of an internal platform allowing real-time visualization and labeling (to improve the company's theft detection algorithm) of videos with Django
- Classification of data allowing the learning of the computer vision model

*Skills:* HTML · Cascading Style Sheets (CSS) · Python (programming language) · JavaScript · Amazon S3 · Django

## PROJECTS

| 2024 | **Artificial Intelligence** |
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Automated creation of multimodal digital content

| 2024 | **Finance** |
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Algorithms and visualizations to aid financial analysis (Python)

| 2021 | **Sorting Algorithms** |
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Platform for visualizing sorting algorithms (React)

| 2021 | **Web Semantics** |
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Website displaying the availability of bikes/trains (RDF)

| 2020 | **NLP (Natural Language Processing)** |
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Conversational agent displaying song lyrics (Chatbot Messenger)

| 2020 | **Computer vision** |
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Computer vision algorithm transforming finger gestures into equations via a webcam (Tensorflow, OpenCV)

| 2019 | **Deep Learning** |
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Algorithm for health scoring of cooking recipes (Tensorflow)

## EDUCATION

| Sept. 2018 — June 2021 | **ESILV** | Paris, FR |
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- Master's in Computer Science, Big Data, and IoT
- Specialization in Data Science

| Sept. 2016 — Dec. 2018 | **CPGE Fénelon Sainte-Marie** | Paris, FR |
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- MPSI - MP

## LANGUAGES

**English**: Fluent     **Français**: Native