Antoine Fusilier

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A passionate and determinate **Software Engineer** with a keen interest in **Big Data and Cloud technologies**. I specialize in **IT, automation, and robotization**, constantly expanding my knowledge through personal research and professional projects. I have a **strong background in web development, cloud computing**, and data modeling. My goal is to contribute to impactful and forward-thinking projects, collaborate with a wide range of teams and drive innovative solutions for the company, always on the lookout to lead the way in future breakthroughs.

*I take a **hands-on approach to project management** from brainstorming to production, yet am able to delegate with clarity and decisiveness. By motivating teams through individual guidance, encouragement, open dialogue and constructive criticism, I aim to **instill a culture in which team members take genuine pride in their work** and continually raise the bar of creativity for the company.*

Data Engineer — SG — 2023 to present
BANKING
- formely S O C I É T É G É N É R A L E -

Société Générale is the 2ⁿᵈ largest bank in France servicing 30M clients, ranking #6 in Europe and in the top 20 banks worldwide for total assets.
***I spearheaded the development of an internal application that transformed the management and distribution of AI model** features across the organization.*

This platform centralized all feature engineering outputs into a unified repository, making it easily accessible for all data teams. By **simplifying the sharing and reuse of features, the application enhanced efficiency in data processing and accelerated the deployment** of machine learning models. **This initiative not only streamlined workflows but also fostered collaboration** among data scientists, leading to more robust and scalable AI solutions within the bank.

- Developed a Springboot (Java) React web application for extracting data to HDFS.
- Participated in designing a Scala template for migrating data processing pipelines previously on Talend.
- Contributed to the development of an internal Big Data Framework project.

Software Engineer — Magasin Leblanc — 2022 - 2023
HARDWARE RETAILER
B R A Y - S U R - S E I N E

*Although a portion of the business is dedicated in B2C, the core of its activity is **B2B**, providing factories, laboratories, co-operative farms, construction sites as well as municipalities with a **whopping catalogue of 90k+72k references** splitted in two suppliers, while stocking on site 12-30k SKUs.*

- **Development of an Angular NodeJS Dashboard** for synchronization between different servers, Cloud, and files.
- Installation of a Prestashop project, Cloud partitions, and Google Workspace Admin administration.
- Email server migration, product data analysis, and studies and solutions for their e-commerce portal.

Business Development Consultant — AF Consult — 2021-2022
CONSULTANT
P A R I S

As Aideco's clients' trust grew with positive outcomes, their appreciation prompted some to offer that I stepped into a more managerial role to oversee functional components of their business operations ; although being primarily in the construction industry, and here I witnessed firsthand the significant impact of technology on a company's productivity & operational effectiveness, confirming my new choice in studies that I was pursuing in parallel:

- **planning and budgeting** of equipment & machinery renewal.
- proposing solutions for **coordination and better integration** of external suppliers & vendors.
- working conjointly with their drafting department in order to **ensure smooth projects execution and on-time delivery**.
- **managing operational logistics** for remote construction sites & ensure smooth liaison in between involved departments & teams.

CEO — Aideco — 2020 - 2021
FACILITIES SERVICES
N A N T E R R E

*Founded & managed a SME with a team of 11 employees, offering a range of innovative personal aide and decoration services including home cleaning, gardening, pet care and child support/coaching, as well as outdoor construction (e.g.: terrace building). I recruted mostly people in the 40 to 60 years old range, solving 2 problems at once: they had diificulty to find work, while **I could provide quality and experience to the clients**.*

- **Oversaw both office management and on-site operations**, personally leading green space projects to ensure high standards of service delivery.
- Directed human resources, accounting, and business development, while also actively supervising field work, ensuring efficient coordination between the administrative and operational sides of the business.

Skills

I.T.
- **AI, Machine Learning & Data Science:** TensorFlow, Keras, PyTorch,Scikit-learn,SpaCy,NLTK,Hugging Face Neural Networks, CNNs, RNNs, GANs
- **Networking:** TCP/IP, HTTP/HTTPS, DNS, DHCP, Firewalls, VPNs, IDS/IPS, SSL/TLS, AES, RSA, OAuth, Dex
- **Frontend:** Angular,React, VueJS   • **Backend:** pringboot,.RestJS, Python, PHP, Rust, C++
- **Big Data:** Parquet,HDFS, Hadoop, PostgresSQL, MongoDB, MariaDB, MySQL, SQL Server, Redis, Minio
- **Backend:** Springboot,RestJS, Python, PHP, Rust, C++
- **Cloud Computing:** KVM, Kubernetes, Ansible, Terraform, Dex, Spark, Kafka, AirFlow

MANAGEMENT
- **Agile:** TCP/IP, HTTP/HTTPS, DNS, DHCP, Firewalls, VPNs, IDS/IPS, SSL/TLS, AES, RSA, OAuth, Dex
- **Financial:** Angular,React, VueJS   • **ERP:** Divalto, Odoo   • **GRC:** RSA Archer
- **Business Intelligence:** Power BI, Google Sheets, Python

OTHER SKILLS: **Software Technologies:** Next.js - Flutter - React Native - Ionic - Electron - Tailwind - Sass - jQuery - Web Components - Three.js - Actix Web - Diesel **Data Management:** PostgreSQL - MySQL - MariaDB - SQL Server - MongoDB - Cassandra - Firebase - Redis HDFS - Apache Hive - S3 - GCP Storage - Snowflake - Elasticsearch - Memcached **ML & AI Technologies:** TensorFlow - PyTorch - Keras - Scikit-learn - Apache Mahout - MXNet - Caffe NLTK - SpaCy - Hugging Face Transformers OpenCV Pandas - NumPy - Dask MATLAB - RapidMiner - Weka **Big Data Technologies:** Hadoop - Spark Kafka Hive Beam **Devops & Cloud Technologies:** KVM - Docker - Kubernetes - Terraform - Ansible - Prometheus - AWS - GCP Jenkins - GitHub Actions - GitLab CI/CD **Programming Languages:** Python - JS - TS - Java - C++ - Go - Rust - PHP - Scala **Data Visualization Tools:** Power BI - D3.js - Kibana - Matplotlib - Seaborn **Testing & Quality Assurance:** Jest - PyTest - SonarQube

Studies

AI ENGINEER MASTER'S DEGREE
Education: development and deployment of AI solutions, data collection and analysis, creation of predictive models, classification via Deep Learning, data science project management, communication of results through visualizations.
- **Technologies:** Python, TensorFlow, Advanced SQL, NodeJS, Symfony, NLP, Deep Learning, Cloud (AWS, Azure), Git, GitHub.
- **Project Management:** Scoping of an artificial intelligence project.

BACHELOR OF SOFTWARE ENGINEERING
Education: Strengthen your back-end skills (Symfony or Node.JS) to design an application from the specifications to production (development, security, databases, project management...).
- **Technologies:** TensorFlow, UML, Merise, Advanced SQL, Advanced NodeJS, Angular, React, Cyber-security
- **Project Management:** AGILE (Scrum) methodology with Jira