



# Robin Ferré

FREELANCE FULL STACK ENGINEER

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## Skills

<b>Software architecture</b>	Full stack development, Data science, Micro Service, User Experience, User Interface
<b>Programming languages</b>	Javascript, Typescript, Python, Java, Bash
<b>Frameworks</b>	NestJS, ExpressJS, VueJS, Springboot
<b>Databases</b>	PostgreSQL, MongoDB, SQL
<b>Data</b>	Nifi, ETL, Dataiku, ELK, Tableau, Data science
<b>Pratiques techniques</b>	Devops, Agile, UI first, TDD, API Rest, GraphQL
<b>Technologies</b>	NodeJS, Linux, Docker, Git, Kubernetes, Ansible, NPM, Virtualisation
<b>Soft skills</b>	Autonomy, Tech Sales, Challenge, Communication, Conflict resolution, Active listening

## Experiences

### Lemonway

Paris, France

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April 2022 - January 2023

- Management / Project team: 7 people.
- Context: Lemonway is a scale-up of about 150 people. As a fintech, it offers payment solutions dedicated to marketplaces (B2B, B2C and C2C), participative financing platforms as well as to corporates requiring payment and fundraising services on behalf of third parties in a secure and regulated framework (KYC).
- I work on the fullstack development of the application used by analysts to process and verify the tens of millions of Lemonway users (customer/merchant identification, fight against financial crimes and money laundering).

### Transway

Nantes, France

FULL STACK ENGINEER, DATA SCIENTIST

February 2020 - February 2022

- Engineer on several projects for Transway, a 25-person start-up promoting ecomobility. The different projects aim to boost the use of public transport, cycling, carpooling and walking. I worked on the development of a multi-tenant PaaS for loyalty programmes, around a movement tracker, on the R&D on MaaS (mobility as a service), on the coaching of junior profiles and then on the implementation of the management, processing and visualisation/reporting of data for all Transway's projects.

### Airbus Defense and Space

Elancourt, France

SOFTWARE ENGINEER

October 2018 - February 2020

- Developer and integrator on the back-end of the project Massive Intelligence. International project with 10 other teams in agile mode. This project aims to bring together all intelligence services on a single platform (Open Source, Satellite Imaging, Intelligence...). Data is ingested, processed and visualised via micro-services. The product will be deployed in the cloud or on site depending on the client's needs.

### La Banque de France

Paris, France

DATA ENGINEER

March 2018 - September 2018

- Implementation of new Big Data development lines from the Banque de France's application expertise unit for all future projects requiring them. Installation and start-up of an HDP cluster. Then, following various POCs and project audits, a Big Data architecture corresponding to the majority of the projects and its technological ecosystem were set up with internal support from the Banque de France.

### KMUTT Research Laboratory

Bangkok, Thailand

SOFTWARE ENGINEER (INTERNSHIP)

March 2017 - September 2017

- Development of a petrol delivery application. The objective was to work on the census of the streets of Bangkok, while having an easy to use application. The application allows the connection between a delivery person and a user, all with a real-time geolocation of the delivery.

## Education

### ESIEA

Paris, France

MASTER DEGREE IN SOFTWARE ENGINEERING

September 2013 - March 2018

- **Software Architecture, Big Data, Financial IT**

- 940/990

## Lycée Notre Dame

Le Mans, France

SCIENTIFIC BACCALAUREATE

2012

- Physics and chemistry speciality, music option

## Projects

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### KYC (Lemonway)

- Micro-services architecture
  - General design, story development and optimization
  - Project quality : integration tests / unit tests (90% coverage), reviews 2 proofreaders, SonarQube, 0 warnings, 0 messages
  - Collaboration with the PO: collection of needs, writing stories, global documentation under Notion
  - Project management: facilitation of PPP meetings, business workshops, subdivision and project follow-up
  - Realization of corrections, optimizations, evolutions
  - Agile organization: 2-week sprint, Scrum method, ceremonies, JIRA
  - Writing of documentation (technical, api, release automation, etc.)
  - Functional / technical presentations during company reviews or to customers
  - Realization of POCs
- Technical environment: **NodeJS, NestJS, VueJS, Saas, Typescript, Mongoose, Jest, MongoDB, Mongo Atlas Search Index, RabbitMQ, Docker, SonarQube, AWS, Jira, GitLab, Notion, Visual Studio Code**

### Ireby suite (Transway)

- Design of the application (architecture document, workshop facilitation with the teams)
  - Front-end development (VueJS, Sass, typescript)
  - Back-end development (NodeJS, NestJS, typescript, pm2, postgresql)
  - TU/TI (cypress on the front, jest for the back, integration with deployment pipelines)
  - Application maintenance (fix, hotfix, alert management)
  - Conception et maintenance du CI/CD (pipelines, cloud)
  - Server management
  - Documentation redaction (technical, api, release automation, etc)
  - Pre-sales, technical follow-up with customers
  - Functional / technical presentations at company reviews or to customers
  - Technical supervision of work of students, trainees and juniors
  - POCs
- Technical environment: **NodeJS, Typescript, NestJS, VueJS, Saas, Pm2, Postgresql, Typeorm, Mongoddb, Mongoose, MySQL, Cypress, Jest, Sentry, Docker, Bitbucket-pipeline, Gitlab CI, Linux, OVH, Clevercloud**

### Data branch (Transway)

- Reflection on the needs of the company
  - Setting up an ETL (apache nifi)
  - Import and processing via ETL in an S3 datalake (aws) of data from all projects (10 bdds)
  - Development of data models
  - Connecting a data-vizualisation tool to the datalake (Tableau)
  - Creation of real-time updated KPIs
- Technical environment: **Apache Nifi, Amazon S3, Amazon Athena, Tableau**

### Massive Intelligence (Airbus)

- Design and development of backend services
  - Job management, Management of processing chains, User management, SSO, REST API services to interface COTS service with UI, Creation of reports YGWYS...
  - Documentation writing: design documents, APIs, requirements, releases notes, licenses, architectural documents
  - Integration of services developed on a development platform, use of Ansible and Terraform scripting to automate deployment, Continuous Delivery with Jenkins based on tests on a platform that is recreated every day
  - Maintenance of the services developed, updating with bug fixing according to the evolution of the need
  - Intégration d'outils propriétaires à la plateforme : Nifi, Dataiku, MongoDB, Kafka, ELK, Minio S3...
  - Writing TU/TI: Postman test scripts, called during continuous delivery
  - Accompaniment of other teams on Docker, help on some Ansible scripts, on Java
  - POC around a Cassandra cluster (Datastax suite, Cassandra, Spark)
  - Production of videos, slides around the platform, real-time presentations of the platform to sales, marketing and product owner
- Technical environment: **Java, Springboot, micro-service, docker, Nifi, Dataiku, Mongoddb, ELK, Minio S3, Postman TU**

### **Big Data development lines (Banque de France)**

- Configuration and administration of a Hadoop cluster distributed by Hortonworks with 10 nodes (Ambari, version evolution, high availability, addition - decommission and recommission of nodes)
- Hadoop Technology Management: HDFS, Mapreduce, YARN
- Participation in code audits on major Big Data projects
- POCs and standards writing for Sqoop, Hive, Spark, HBase

Technical environment: **Hadoop, HDFS, Mapreduce, Yarn, Sqoop, Hive, Spark, HBase**

### **Use'Fuel (KMUTT)**

- Development management and technological choices relevant to the project
- Design and development on the front-end of the application, development on the back-end of the application
- Delivery of a reliable solution to the laboratory and deployment of the application

Technical environment: **Android Studio, firebase, java**

## **Hobbies**

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**Music** Guitar, Bass Guitar, Drums, MAO

**Sport** Table tennis, Hiking, Biking

**Gaming** Versus Fighting, Indie games, Platformers, Chess

**Cinephile** Science fiction, Fantasy, Drama

**Bookworm** Science fiction, Comics, Manga