

RAPHAËL DEHOUSSE

Freelance - Technical Lead / Senior Developer / Architect

+32 471 07 42 86

@ raphael@dehousse.name

/in/rdehouss

Liège, Belgium



SUMMARY

I'm a pragmatic hands-on Leader / Project Manager and I'm a solution-oriented technical architect

« True Agile isn't about twice the work in half the time but about doing half the work while producing twice the value »

@stevedenning

EXPERIENCE

CTO / Head of Engineering

Esnah

09/2019 - Ongoing Liège, Belgium

IOT / Communication gateway for aircrafts and boats

- Migration to Docker Swarm cluster, dockerizing all NodeJS and Python apps
- Architecture for receiving the IoT data

Environment: Docker Swarm / Apache Pulsar / Ansible

CEO / CTO

Data Fellas / BDM Reco

10/2017 - 09/2020 Liège, Belgium

Big Data and AI

- Managing a team of 7+ people both local and remote
- Created a full recommendation system with Python, Kafka, PySpark and SQL
- Responsible for the relationship with the customers (B2B) and project management

Environment: PySpark / Docker / Kafka / Metabase

Agile ICT Project Manager

The Faktory

08/2016 - 08/2019 Liège, Belgium

Startup Incubator

- Helping startups to organize their team and product

Tools: Jira / Confluence / Gitlab CI

Solution Engineer / Agile IT Project Manager

Proximus

11/2013 - 07/2016 Brussels, Belgium

Belgian Telco Operator - Proximus TV

- Delivering new ProximusTV website and apps
- Implementing Scrumban for operations

Tools: Jira / Confluence / Gitlab CI

INDUSTRY EXPERTISE

Leadership



Agile / Scrum / Lean



Project Management



DevOps / CI/CD / Docker



Python



NodeJS



SQL



Big Data & AI



EDUCATION

AgilePM Practitioner

APMG International

06/2016

Prince2 Foundation

APMG International

10/2015

PSM 1 + PSPO 1

Scrum.org

02/2015 + 06/2015

Bachelor in Computer Science - Network & Telecoms

Haute Ecole de la Province de Liège

2004 - 2007

LANGUAGES

French



English



DETAILED EXPERIENCE

CTO / Head of Engineering

Esnah

📅 09/2019 - Ongoing 📍 Liège, Belgium

IOT / Communication gateway for aircrafts and boats

- I created the distributed architecture for the solution to be scalable, resilient and performant using Docker Swarm for the orchestration and Apache Pulsar for the queuing/messaging system. APIs received the IoT data and serialized them in Apache Pulsar. Jobs consumed the data to perform different actions like quota management, statistics creation, etc. I also created an asynchronous bot to "respond" to messages/commands sent by the crew.
- I set up the CI and CD of the software part of the solution with a self-hosted gitlab-runner, a self-hosted registry (Nexus) for our node and python packages and our docker images.
- I dockerized them to orchestrate them via Docker Swarm instead of the previously used pm2.
- I automated the whole setup of the cluster via Ansible: db mgmt, public keys deployment, deployment of the Traefik, Consul, Apache Pulsar, PostgreSQL, the tools around Docker Swarm, etc.
- Finally, I created a mobile application in Flutter to work on both iOS and Android, with BLE.

Environment: Docker Swarm / Apache Pulsar / Ansible

CEO / CTO

Data Fellas / BDM Reco

📅 10/2017 - 09/2020 📍 Liège, Belgium

Big Data and AI

- With the help of my system engineer, I created the distributed architecture for the solution to be scalable, resilient and performant around Kafka. This architecture was composed of APIs to collect data serializing them in Kafka and jobs that consumed the topics of Kafka and produced their results (like data cleansing, enrichment, featurization, ...) back in Kafka or in a DB.
- I implemented algorithms (a Cosine Similarity-like, RFV, ...) in SQL to answer below 300ms with hundreds of millions of records.
- I developed PySpark jobs to process the collected data (to be used by the algorithms or to generate dashboards) and also developed libraries, APIs (using aiohttp) and jobs in python.

Environment: PySpark / Docker / Kafka / Metabase

Agile ICT Project Manager

The Faktory

📅 08/2016 - 08/2019 📍 Liège, Belgium

Startup Incubator

- In order to help the startups to organize their team and product, I created PoC for CI/CD for demonstration purpose and promoted agile development methodologies like TDD, continuous refactoring and collective ownership.

Tools: Jira / Confluence / Gitlab CI

Solution Engineer / Agile IT Project Manager

Proximus

📅 11/2013 - 07/2016 📍 Brussels, Belgium

Belgian Telco Operator - Proximus TV

- In addition of being a PM, I remained technical lead reference for the team and helped and guided them for the technical solutions.
- I promoted TDD, pair-programming, continuous refactoring, simple design and collective ownership.

Tools: Jira / Confluence / Gitlab CI