



# Vincent Fischer

## AI & Data engineer

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| Website        | <a href="https://fvdc.io">https://fvdc.io</a>   |
| Location       | Boistfort, 1170 Bruxelles   |
| Driver license | Type B, since 2016  |

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## Education

### About me

AI & Data Engineer with hands-on experience building data pipelines and machine learning solutions in cloud environments (AWS & Azure). I have worked on NLP, automation, and analytics projects in production settings, collaborating with business and compliance stakeholders.

I am particularly motivated to deepen my expertise in responsible AI, model governance, and AI deployment within regulated environments. I value transparency, rigor, and continuous learning, and I am looking to grow into a role where I can progressively take ownership of AI systems while contributing to their ethical and compliant use.

### Studies

|             |  |
|-------------|--|
| 2020 - 2022 | <b>MASTER'S DEGREE, COMPUTER SCIENCE ENGINEERING</b><br>ECAM, Brussels, Belgium<br><b>Master Thesis:</b> Extraction et traitement des mouvements du squelette d'une personne sur une vidéo RGB pour en garder la cohérence physique et temporelle<br>Supervisors: Ir. Quentin Lurkin |
| 2017 - 2020 | <b>BACHELOR'S DEGREE, INDUSTRIAL ENGINEERING</b><br>ECAM, Brussels, Belgium<br>Option in IT  |

### Certifications

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| 2024 | Great Learning: ChatGPT for beginners<br>Coursera: Fundamentals of Generative AI for Beginners (AWS) |
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| 2023 | Great Learning: Introduction to GraphQL<br>The Linux Foundation: Green Software for Practitioners<br>ISO27001 (Renewal)  |
| 2022 | Amazon: CLF-C01 AWS Certified Cloud Practitioner<br>Microsoft: PL-300 Microsoft Power BI Data Analyst<br>Databricks: Accredited Lakehouse Fundamentals<br>Coursera: <ul style="list-style-type: none"> <li>Stanford University: Machine Learning Specialization</li> <li>Project Network: Mastering Data Analysis with Pandas</li> <li>Michigan University: Python for Everybody Specialization</li> </ul> |

## Trainings

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|------|--|
| 2024 | ChatGPT Prompt Engineering for Developers (Deeplearning.ia), Prompt Engineering with Llama 2 (Deeplearning.ia), Serverless LLM Apps Amazon Bedrock (Deeplearning.ia), Your First 2D game from zero with GODOT 4 (YT), Planning a Generative AI Project (AWS) |
| 2023 | Numérique responsable (Academie NR), PySpark pour Data Engineer et Data Scientist avec 2 projets (Udemy), Learn SQL and prepare for Oracle SQL 1Z0-071 (Udemy)   |
| 2022 | Advanced SQL, Power Apps, React, Data Warehouse, Excel, Power BI, Cloud Architectures, PL/SQL, APEX, Azure Data Factory, UML, Agile tools and methods, Databricks, Machine Learning, Angular, Git (versioning)   |

## IT Skills

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|-------------------------|--|
| In industry<br>(2+ yrs) | Python, Excel, VS Code, Jupyter Notebook, Postman, Pandas, Matplotlib, Numpy, RestAPI, GraphQL, WSL, SQL, PySpark, PowerBI, Gitlab, Containerization, Docker, DBeaver, FastAPI, NLP, ML, Selenium, AWS, Azure, Azure API, MySQL, Psycopg2, AWS Sagemaker, OpenAI ChatGPT, AWS S3, AWS Redshift, AWS Glue, AWS EMR, AWS Airflow |
| My projects             | Github, Image Processing, Web scraping, Mediapipe, Tensorflow, Keras, Scikit-Learn, Virtualization, Virtualbox, Google Colab, Godot4, Ansible, Llama2, Webflow   |
| Knowledge of            | Oracle, SQL Developer, NoSQL, MongoDB, Neo4j, Django, Flask, Laravel, Angular, Symfony, React, HTML, CSS, PyTorch, Dataiku, Databricks, Azure Data Factory, C#, Amazon Bedrock, PBI DAX  |
| Non-Technical           | Initiative taker, Quick learner, Self-taught, Team player, Volunteer, Persevering, Curious, Autonomous, Easy going   |

## Languages

|         |                    |
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| French  | Mother tongue (C2) |
| English | Fluent (C1)        |
| Dutch   | Basic user (A1)    |
| Spanish | Basic user (A1)    |

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## Professional Experience

From 05/2024 **Fischer Vincent Data Consulting – FVDC**

*Creation of my own company, working on various data and software projects.*

- Contracted as a Data Engineer for a start-up focused on data engineering and data science (project under NDA). Built data ingestion and transformation workflows using Python, PySpark, and AWS Glue to make it usable for the LLMs.
- Designed Power BI-ready star schemas from Excel data (POC available on GitHub).
- Created a game in Godot 4, currently in private development; a first learning project (APK) is publicly available on my website.
- Built a Discord bot for Dofus players, monitoring page changes and later enhanced with an LLM-powered chatbot for community support.
- Developed automation scripts and a private UBL (Peppol) converter for accounting data integration.

*Technologies:* Godot 4, Python, Pandas, Numpy, Psycopg2, Selenium, BeautifulSoup, pydf, llama-index, ollama, discord-py, PySpark, AWS S3, AWS EMR

From 09/22

**Hermès Engineering**

To 05/2024

*IT consultant – Infrastructure team member – Data Science team member*

(1 yr 8 mo)

Within Hermès I mostly work as a consultant. But I am also a member of the infrastructure team. We are mostly working on maintenance issues on Azure services and decommissioning on premise old servers and VM.

*Technologies:* Azure, Windows server 2003, Linux, Docker, Azure DevOps

From 11/23

**Gaming1**

To 02/2024

*Data Engineer, Developer*

(3 months)

The Gaming1 Landbased team needed help with their Data Collection project, which consisted in bringing back data from their distant offline sites back to the HQ.

- Analysis of the on-site data available on their different CMS. Doing so through MySQL backup databases and docker.
- Presentation of the data to the business to agree on which data we need to bring back.
- Development of GraphQL APIs to standardize communication with the different CMS brands.
- Development of the recuperation APIs to store the data on AWS.
- ETL of said data in PySpark to make it available for PBI.

*Technologies:* GraphQL, Postman, CMS custom APIs, AWS, Airflow, Pyspark, Python, Docker, MySQL.

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From 11/22  
To 11/2023  
(1 year)

### **Gaming1**

*Data Scientist, Data Engineer, Developer*

Support to both the data platform and the data science teams as a data scientist with knowledge in both data science and data engineering.

- Creation and automatization via Airflow of a python script to call PowerBI and Azure APIs to get an overview of their metadata.
- ETL with PySpark for business use cases.
- Creation of SQL queries to check the data quality.
- Implemented data quality checks and unit testing frameworks to support future data mesh governance policies.
- Creation of a python script to verify that the export of databases to AWS S3's went well.
- Conducted feasibility analysis for early-risk detection models (Marketing & Compliance), collaborating with business stakeholders to define KPIs and model success criteria.
- Developing a new feature for an existing library that transforms the Json definition of an Airflow DAG into a DAG (with custom tasks).
- Designed and deployed NLP-based language and toxicity detection models for Zendesk ticket automation, improving moderation efficiency and compliance response time.
- Development of a script refreshing partitions of a dataset and dataflow.
- Web scraping to compare our website to the competitions.

*Technologies: AWS, PySpark, Python, Git, APIs, SQL, Visual Studio Code, TensorFlow, Azure AD, DBeaver, Miro, Tensorflow, Psycopg2, WSL, Debian/Ubuntu, Docker, Pandas, Airflow, Pillow, Selenium, BeautifulSoup*

From 09/21  
To 07/2022  
(10 months)

### **ECAM's research and development center (CERDECAM)**

*Master's Thesis in computer vision*

Development of a POC on a comparison study of different pose estimation models.

- Confidential finality
- Using Artificial Intelligence and Image Processing

*Technologies: Colab (Google), Visual Studio Code, Mediapipe, Github*

From 07/20  
To 06/2022  
(2 years)

### **Work And Meet**

*Data Engineer, Python Developer*

Helping in a startup. Mostly data retrieval, processing, and analysis.

- Developing python scripts to do the retrieval with Psycopg2
- No big data meant processing done with Pandas
- Jobs orchestrated on Airflow
- Stored in MySQL DB

*Technologies: Visual Studio Code, Python, Psycopg2, Docker, Github, Airflow, AWS, Excel, Pandas, SQL, MySQL*

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From 07/21  
To 08/2021  
(2 months)

**Boardgame Dev.**

*Master 2 internship*

Full development of a game platform for team building.

- Architecture development with Office and Draw.io
- Backend with Laravel (PHP)
- Frontend with React
- Rest API linking both ends.

*Technologies:* Visual Studio Code, Laravel, PHP, React, Rest APIs, Postman, Draw.io

From 04/20  
To 05/2020  
(2 months)

**European School of Brussels**

*Bachelor 3 internship*

Implementation of a ticketing system to help the school's IT team being more efficient while not incurring new costs.

- Research on free ticketing tools and associated OS
- Installation of Linux servers on virtual machines.
- Installation of OTRS (free ticketing tool)
- Setup of OTRS with associated mail ticketing.

*Technologies:* Linux, Centos, OTRS, Oracle VM VirtualBox

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