

# Hubrechts Maarten

DATA ENGINEER / ARCHITECT

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## Summary

MSc in Computer Science with a passion for data. Experienced in data engineering and architecture, building data-driven solutions and migrating projects to the public cloud. An enthusiastic team player who is eager to learn and not afraid to take on ownership.

## Work Experience

### VDAB (Freelance)

Brussels, BE

Big Data Engineer

2023 - present

- Extended and maintained the in-house data framework used by data scientists for streamlined data access, ETL implementation and orchestration, and ML model deployment.
- Implemented a hybrid approach for training ML models on-premise, packaging and pushing models to AWS via ECR, and deploying them as scalable APIs on AWS ECS (Fargate).
- Built a robust data lineage solution generating OpenLineage logs from ETLs via Fluentd and visualizing results in Marquez.
- Delivered a proof-of-concept migration from on-premise infrastructure to AWS using SageMaker for the entire ML workflow.

### Addestino

Zele, BE

IT Consultant

2022 - 2023

- Worked as a technical consultant on data engineering and architecture projects, bridging business needs with technical solutions.

### NBB (via Addestino)

Brussels, BE

Data Engineer

2023

- Conducted functional analysis and implemented an organization-wide data catalog using Azure Purview.
- Integrated the data catalog with various technical components, including Databricks and the data warehouse.
- Organized data architecture workshops to align business and IT.

### Meat&More (via Addestino)

Aalter, BE

Data Architect / Product Owner

2022

- Design and implementation of a mature, future-proof data architecture for reporting and data science needs.
- Captured business feedback, determined feature priorities, and tracked long-term goals to ensure deadlines were met.
- Communicated progress to management and business stakeholders effectively.

### KBC Bank & Verzekeringen

Leuven, BE

Big Data Engineer

2020 - 2022

- Technical implementation of various big data driven projects ranging from personalized advertisement to anti-money laundering.
- Pioneered the organization's first migration of a major AI project from on-premise infrastructure to AWS.
- Deployment, maintenance and monitoring of machine learning models (MLOps).

### Vrije Universiteit Brussel

Brussels, BE

PhD Researcher & Teaching Assistant

2018 - 2020

- Conducting research at the intersection of software engineering and data science to develop programming methods/frameworks to better integrate machine learning techniques into the software development process.
- Teaching assistant for the computer science bachelor course "algorithms and data structures".

# Skills

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<b>Programming Languages</b>	Python, Scala, SQL, Elixir, JavaScript
<b>Big Data &amp; Analytics</b>	Apache Spark, Hadoop Ecosystem, Apache Kafka, Apache Iceberg, SingleStore
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, Redis
<b>Cloud Platform: AWS</b>	SageMaker, Lambda, RDS/Aurora, ECS (Fargate), S3, EC2, etc.
<b>Cloud Platform: Azure</b>	Synapse Analytics, AI Foundry, Data Factory, Azure Data Lake Storage, etc.
<b>Orchestration &amp; (AI) Infrastructure</b>	Apache Airflow, Docker, Portainer, Conda, Poetry, Fluentd, LangChain, MLflow
<b>Data Management &amp; Lineage</b>	OpenLineage, DataHub, Azure Purview, Marquez
<b>CI/CD</b>	Git, GitLab CI/CD, Azure DevOps, Jenkins, Concourse
<b>Soft Skills</b>	Teamwork, Problem-Solving, Knowledge Sharing, Documentation, Presentation

# Education

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<b>Vrije Universiteit Brussel</b>	Brussels, BE
MSc in Applied Sciences and Engineering: Software Languages and Software Engineering	2016 - 2018
• Magna Cum Laude	
<b>ETH Zürich</b>	Zürich, CH
Master of Science: Computer Science	2017
• Exchange Program	
<b>Vrije Universiteit Brussel</b>	Brussels, BE
Bachelor in Computer Science	2013-2016
• Cum Laude	

# Certifications

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2023	<b>Azure Data Engineer Associate</b> , Microsoft Certified (+ 2024 renewal)
2023	<b>Azure Data Fundamentals</b> , Microsoft Certified

# Languages

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<b>Dutch</b>	Native Proficiency
<b>English</b>	Professional Proficiency
<b>French</b>	Limited Working Proficiency