Curriculum Vitae
Bart Bijlsma

Personalia

Date of birth	22 July 1991
Residence	Amersfoort
Nationality	Dutch

Position	Developer/Data Engineer/Analyst
Talen	Dutch, English
Email	info@bijlsma.tech
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Background

Bart is widely experienced and deeply interested in the world of data. With years of work experience in various roles within the data domain, including as lead developer, data engineer and data analyst, he is a widely experienced data specialist.

Due to the combination of his fast learning ability, analytical and pragmatic way of thinking and social skills, he functions well within a team, but he is also very effective independently. More than 5 years of experience with Python, SQL & PowerBi, supported by several years of cloud experience (several Azure components & Google BigQuery). With years of work experience as a python developer and data engineer, Bart is well versed with various big data technologies such as Airflow, Spark, Databricks, Hadoop & Hive. With a background in Operations Research and a focus on econometrics, he is also familiar with the design and deployment of various Data Science models that must be able to run robust and scalable in production.

Besides his work, he loves music and sports (cycling, running, indoor football, padel). A beer afterwards should certainly not be skipped.

Work experience

Employer:	**Deapr B.V. (external)**
Position:	Lead developer
Period:	January 2022 - Present
Description:	Responsible for the development of the Godeapr® application that recognizes 30 different types of personal identifiable information in unstructured file systems (pdf, mail, word, pptx, images, etc.) or structured databases (MySQL, PostgreSQL, Oracle, etc.). Responsible for a team of 3 developers regarding the frontend, backend, algorithms, design, deployment, security, testing and quality of the OS-independent application. Including intensive use of: OCR, multiprocessing, string matches, regular expressions, dictionary matching, correctness algorithms. Tools & Techniques:

- Back-end is completely written in Python with Cython enhancements.
- Front-end is written in NodeJS / Typescript, using Angular / Electron.
- Structural databases: PostgreSQL, MSSQL, MySQL, SQLite, Oracle, MariaDB
- Docker for database setup and testing
- Azure DevOps for building, testing & deployment and project support (scrum)

Employer:	**Rabobank (external)**
Position:	Data Engineer
Period:	July 2020 – March 2022
Description:	Responsible for the development and operationalization of the Advanced Analytics platform with 180 users (on premise and in the cloud (Azure)) where advanced models and algorithms are developed for various Data Science projects; KYC (Know-Your-Client), transaction monitoring, transaction categorization, forecasting models, Rabo Research, Risk

- Installing stable Airflow environments and connect (ETL) dozens of different sources within the bank
- Creating and migrating ETL jobs to Airflow and Azure Data Factory in Python, SQL and Bash
- Developing deployment pipelines in Azure DevOps (Terraform)
- Managing data and platform related authorizations in a Hadoop cluster to minimize security risks
- Designing and developing functionalities in Python and Bash that clean up the platform and make it more secure
- Improving the platform by making new technologies available (PySpark, SparkSQL) within Dataiku for Data Scientists
- Provide operational support to various Data Science projects
- The platform consists of the following components:
  - o Cloudera Hadoop cluster (55 Linux Red Hat servers)
  - o Sqoop / HIVE / Impala (Data Movement / Transformation)
  - o Spark / PySpark (Data Movement / Transformation)
  - o Kubernetes (Data processing / scalability)
  - o Dataiku (Data Science visualization tool)
  - o Airflow (ETL / automation)
  - o Azure Data Factory / Azure DevOps (ETL / automation)

Education & certification

Master Operations Research,
Wageningen University & Research Centre
Additional courses: (Advanced) Econometrics,
Statistics, Decision Science

Award winning master thesis
(Winner VEDIS Retail Thesis Award 2016)

Courses

VijfHart
Advanced Python

Azure
AZ-400: Designing and Implementing Microsoft DevOps Solutions
AZ-204: Developing Solutions for Microsoft Azure
DP-201: Designing an Azure Data Solution
DP-200: Implementing an Azure Data Solution
AZ-900: Azure Fundamentals

Udemy
- Deployment of machine learning models
- Complete Data Science bootcamp

Coursera
From data to insights with Google Cloud

Scrum.org
PSPO1

Tools & Techniques

Advanced knowledge (4+ years) of Python, SQL, Database Management (PostgreSQL, Oracle, MySQL), PowerBi, Airflow, Git, Dataiku, Azure Data Lake, Azure Data Factory, Azure Devops, Google BigQuery, Linux, Bash

Knowledge (2-3 years) of Spark, Docker, Hadoop & components, PowerShell, Typescript, Javascript, Angular, Electron

Interests

IT & Data, nature & long journeys, home automation, sports (mountain bike, padel, fitness, indoor football), music & concerts, draft beer in the sun

November 2022

Employer:	**fonQ**
Position:	Data Engineer / Analyst
Period:	September 2019 - July 2020
Description:	Designing and developing a new Data Lake and associated Data Warehouses and Data Marts by means of automated data flows (Google Cloud BigQuery in combination with Airflow) and making commercial results visible in PowerBI based on this data.

- Creating and migrating ETL jobs to Airflow in Python and SQL making data available in data warehouses and data marts
- Developing and implementing a reporting environment (PowerBi) that is used organization-wide to make better data-driven decisions
- Improving the up- & cross-sell by developing insights via dashboards (PowerBi) based on the behavior of the website visitor (Google Analytics raw data)
- Development of algorithms in Python to realize better product suggestions based on these insights and a utilization rate of 100%
- Setting up and improving the order forecast in Python using SARIMAX & Random Forest models

Employer:	**OM Partners**
Position:	IT Consultant
Period:	August 2016 - August 2018
Description:	Responsible for the implementation of OMP+ software at global customers (Shell, Friesland Camping, IFF). OMP+ is an application for supply chain planning, demand forecasting, production scheduling and S&OP.

- Matching the OMP+ Data Science functionalities to the needs of the customer
- The installation (cloud-based) and configuration of the application and setting up a multi-user environment
- Designing and developing additional functionalities based on customer needs (e.g. price-based forecasting for Shell)
- Setting up and configuring the interface between different systems (SAP – OMP) including master data analysis and validation
- Analyzing current and designing future planning cycles

Position:	**Other (ancillary) activities**
2020 – present	IT Rapporteur for Food Bank Amersfoort; developing quarterly reports (PowerBI) for the board and automating data flows within the food bank.
2019 – 2020	Building various websites and a webshop in WordPress.

More information
For more information about the candidate, please contact:

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November 2022