

DTAP IN A DATA MESH

Is your degree almost in sight? And are you looking for a challenging internship in the field of software development/ data engineering? Then we might be a good match! At Blenddata we are looking for a graduation intern that can start from September 2023.

About your thesis

In your thesis you will investigate the best way to deploy a DTAP approach within an organization that wants to work according to the Data Mesh principle. If you are successful in finding a possible solution to this so far not solved problem, you will get the opportunity to implement it on a suitable project!

Why this subject?

Blenddata wants to be at the forefront of technology; with your research you can help us to further and better understand how to use DTAP within a Data Mesh architecture design. Your research and proposed solution will help us to facilitate our customers with Data Mesh related questions and implementations.

What is Data mesh?

In 2019, Zhamak Dehghani introduced the concept of Data Mesh, which focusses on the larger enterprises. In many cases, it is a challenge for the data team to handle the numerous data sources of various business units within the organization. Data mesh is a decentralized approach where the data is managed by the business units itself, making the domain team responsible for the data. The team can provide the rest of the organization with their data by making it available as a product. In this way business knowledge about the data is preserved.

What is DTAP?

DTAP stands for Development, Testing, Acceptance, Production and is a standardized four stage approach used in software development. Within DTAP, multiple stages are built-in to ensure that you release tested and validated solutions towards the production environment. New features are built within the development area and then rolled out towards the test environment. When the predefined tests are successful within the test, the software product is released to an acceptance stage where a subset of end-users can test the product, to verify their expectations. If the software is accepted by the end-users, the software is deployed to production so all users can use the latest version of the software.

How does that come together?

The data mesh architecture comes with a few challenges because of decentralization, including a challenge related to the classic DTAP process:

- How are you going to create test cases when data is based on another data product? (To which environment do you connect, which data are you going to use)
- How are you going to enforce compatibility with the data product when using 4 environments?
- If you use test data, how are you going to keep it up to date according to the schedule of the data product you base your product on?

DTAP solutions often rely on tests in which the code is tested against a specific condition. In this test, expectations are made about the data model of a data source.

With DTAP in Data mesh, the challenge is the decentralized approach in which each consumer of a data product within an organization that might also produce a data product on his own, needs to be made aware about changes to the data model of a product to be incorporated in the DTAP street of their own software product. In your thesis you will investigate the best way to deploy a DTAP approach within an organization that wants to work according to the Data Mesh principle.

Who are we looking for?

You:

- Are seeking a graduate internship starting in September 2023;
- Are pursuing a degree in the field of Data Science, Computer Science, or similar;
- Live in the Eindhoven area;
- Are enthusiastic, eager to learn and ambitious;
- Enjoy working together in a team.

What to expect from us?

- A compensation of €500,- per month based on a full-time commitment;
- A friendly environment to develop yourself;
- You will become part of an enthusiastic team who are eager to help you develop further;
- The opportunity to join Blenddata upon successful completion of your thesis
- Daily provided lunch with the team at the office;
- An inspiring environment with our office in the centre of Eindhoven;
- Monthly team events and weekly Friday afternoon drinks.

Are you interested? What are you waiting for!

Then we would love to get in touch with you! Apply by using the apply button below, or send us your resume with some brief information about yourself. Then we will contact you after this.

Any questions? We're happy to help you!

Please feel free to contact us:

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