

Felix Uellendall

Data Engineer, Open Source Enthusiast and Apache Airflow Committer



Email: feluelle@pm.me

Web: feluelle.github.io

About Me



Hi, my name is Felix Uellendall. I am a young Data Engineer working in a data team for a digital agency in Berlin, Germany. I joined the Apache Software Foundation in September 2019. Since then I am also an Apache Airflow Committer.

Technical Skills

I am most skilled in:

Apache Airflow Python Unit Testing

I have experience in:

Agile Methodologies Amazon Redshift AWS Bash C# CI/CD CSS dbt Docker ETL/ELT Git
great_expectations HTML Java JavaScript MySQL PostgreSQL Python Pandas REST Software Design
Software Development System Testing

I am familiar with:

Apache Spark Databricks Express.js GCP Golang JuliaLang Kubernetes Microsoft Azure Node.js
Terraform Test Driven Development

Languages

German (Native speaker) and English (Upper-intermediate)

Projects

Apache Airflow

<https://github.com/apache/airflow>



"Airflow is a platform to programmatically author, schedule and monitor workflows." - Apache Airflow

In search for a solution for the management of data pipelines I stumbled upon the Open-Source project Apache Airflow in January 2018. I really appreciate the simplicity of use, high coverage of use cases and the community behind it. That's why I decided to give something back so I started contributing and am now a committer of this project.

airflow-diagrams

<https://github.com/feluelle/airflow-diagrams>



"Auto-generated Diagrams from Airflow DAGs." - Felix Uellendall

A personal project to auto-generate diagrams based on Apache Airflow DAGs. Airflow DAGs specify workflows which consists of tasks which can depend on each other. Based on these tasks and dependencies a Diagram will be generated. A Diagram visualises the provider (often cloud-based) used in the Airflow DAGs by simply displaying its logos.

airflow-diagrams-plugin

<https://github.com/feluelle/airflow-diagrams-plugin>



"An Airflow plugin to visualise airflow-diagrams." - Felix Uellendall

A personal project to easily integrate airflow-diagrams to Apache Airflow. An Airflow Plugin can be easily added to a Apache Airflow installation and in this case visualises the output of airflow-diagrams.

pi-movies

<https://github.com/feluelle/pi-movies>



"A database and api service for movies hosted on a dockerized raspberry pi." - Felix Uellendall

A personal project for user-friendly self hosting of an API Service on simple computer devices.

pi-analytics

<https://github.com/feluelle/pi-analytics>



"An analytics stack on a raspberry pi deployed in kubernetes." - Felix Uellendall

A personal project for user-friendly self hosting of an analytics stack on simple computer devices.

Experience

Apache Software Foundation

<https://www.apache.org/>

Apache Airflow Committer

September 2019 - Present

"The World's Largest Open Source Foundation" - Apache Software Foundation

For Apache Airflow I am..

- writing project and code documentation
- writing unit tests in python
- adding new features like Airflow hooks and operators
- reporting bugs via Jira or GitHub Issues
- communicating with the community via email and slack
- writing Airflow Improvement Proposals in Confluence
- reviewing GitHub pull requests
- helping users to join the community

- testing and voting releases

Digitas Pixelpark GmbH

<https://www.digitaspixelpark.com/>

Junior Data Engineer

January 2018 - Present

"Germany's most impactful customer experience agency" - Digitas Pixelpark GmbH

- built a data management platform on AWS for our data analysts and scientists to access analytics data efficiently
- added CI/CD to our DMP (data management platform) via GitLab CI/CD which lints, tests, builds documentation and deploys our code to a development or production environment
- building (ETL/ELT) data pipelines with Apache Airflow
- connecting new data sources (mostly via REST APIs) to our data platform
- transforming data via SQL or Python Pandas to be analytics-ready
- designing workflows efficiently by making use of a lot of features of Apache Airflow
- monitoring of our data pipelines

NETRONIC Software GmbH

<https://www.netronic.com/>

Student Research Assistant

August 2012 - August 2016

"Our mission is to enable every SMB organization to achieve operational agility with visual scheduling." - NETRONIC Software GmbH

- built a .NET Windows Forms application in C#
- learned that code readability is important through refactoring and mentorship
- learned the efficient usage of version control systems
- built a web application accessing Microsoft Azure Active Directory via a REST API to manage users for one of our products
- built a hybrid mobile application to let our customers monitor their machines status easily

Education

OSZ IMT

<https://www.oszimt.de/>

Shortened apprenticeship for software development

September 2016 - January 2018

Oberstufenzentrum Informations- und Medizintechnik

During my time of the apprentice I was working for Publicis Pixelpark GmbH. There I built..

- a REST API with the Spring Framework in Java
- a web application with Node.js, Express.js and Handlebars
- a command line application for our data team for automated transfer of social listening data

FH Aachen

<https://www.fh-aachen.de/>

ICT with specifics in application development [Incomplete]

August 2013 - August 2016

Aachen University of Applied Sciences

I learned about..

- the basics of programming in C++
- several other programming languages like Assembly, Prolog and Matlab
- algorithms and data structures
- IT security and forensic
- databases and web technologies
- computer systems architectures, operating systems and distributed systems

Bk GuT

<https://www.bkgut.de/>

IT assistant and advanced technical college entrance qualification

August 2010 - August 2013

Berufskolleg für Gestaltung und Technik

I learned about..

- the basics of programming in C# and Java
- web development with PHP and MySQL

A Little More About Me

I love creating things, solving puzzles, thinking about code and improving challenging problems. Open Source is what I like doing the most. I enjoy working in the community and sharing my knowledge with each other.

I also fell in love with the nature and the silence being out there. I like hiking, playing the piano and I am fascinated by the universe.

Felix Uellendall - feluelle@pm.me - References on request

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