

# Felix Uellendall

Data Engineer, Open Source Enthusiast and Apache Airflow Committer



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## About Me

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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 and Unit Testing

I have experience in: Agile Methodologies, Amazon Redshift, AWS, C#, CI/CD, CSS, dbt, Docker, ETL/ELT, Git, great\_expectations, HTML, Java, JavaScript, MySQL, PostgreSQL, Python Pandas, REST, Software Design and Software Development

I am familiar with: Azure, Express.js, GCP, Golang, JuliaLang, Kubernetes, Node.js, Terraform and Test Driven Development

### Languages

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

## Projects

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### 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.

## Experience

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### 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

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### 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

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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 share 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*

*[Download resume.pdf](#)*