

# Laurent Risser | Bilingual Data Engineer

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## Skills

**Programming:** Python | Linux | R

**Databases:** SQL, MongoDB

**Cloud Computing:** GCP (Cloud Function, Cloud Run, Data Proc Pub-Sub, Storage, Cloud SQL), AWS (S3, lambda, EC2, ElasticSearch, Quicksight, redshift, RDS)

**Certification:** AWS Certified Cloud Practitioner, August 2020

## Professional Experience

### **February 2020 – Present: Data Engineer, [GENAIZ](#)**

- Developed a pipeline with Cloud Function, Cloud Run and Pub-Sub to ingest files from Google Drive and SharePoint=
- Built several automatic tools to extract and transform various files (text, tables, images) into a standard document for internal usage
- Reduced usage cost of GCP by 20% after reviewing the all architecture.
- Used docker file, Makefile and Cloud Build to deploy micro-services into GCP
- Developed an HTTP API for file transfer
- Integrated CI/CD for deployment into GCP

### **August 2019 – Present: Bilingual Client Support Analyst, [Apexa Corp](#)**

- Tracked, manage and resolve technical client's issues using JIRA
- Used SQL to extract data from the onsite database
- Provided a weekly report from the call center and data validators using Tableau and Python to the senior leadership team.
- Helped the development by testing an upcoming new sprint release using a testing environment.

## Data Science Training Projects

**My portfolio:** <https://walkyrie67.github.io/Laurent-Risser/>

### **How to monitor a political movement on Twitter using AWS– [GitHub](#) - [Article 1](#) – [Article 2](#)**

- Project focused on how to build an ETL using AWS services from Twitter API to a near-live Dashboard
- Manipulated and analyzed data by using Elastic Search (Kibana)
- Manipulated files using shell and loaded Python into a production environment
- Services used: EC2, Kinesis, S3, AWS Lambda, ElasticSearch
- Setup a full dashboard automated on Kibana with 1GB of data
- Wrote a two Medium articles

### **Using NLP to understand a WhatsApp Group – [GitHub](#) - [Article](#)**

- Extracted 8,472 messages from a group chat.
- Transformed an unstructured dataframe to a structured dataframe using the tokenization method on Python with Regexp package
- Wrangling of data using Pandas package
- Explored the way people are texting each other and the most common emojis used throughout the day
- Generated cloud words and a correlation matrix using the data

### **Predicting flight delays in the U.S. – [GitHub](#) - [Article](#)**

- Used SQL functions in Python to merge and manipulate dataframes
- Cleaned the dataframe using Pandas
- Created three models to predict the flight delays using a polynomial regression and a ridge regression with sklearn, scipy packages
- Visualized the data using Python Matplotlib, Seaborn and Basemap packages

### **Housing Market, Web scrapping & Analysis – [GitHub](#) - [Article](#)**

- Used a web scrapping algorithm to extract data on Python with Beautiful soup and collected more than 500 apartment details
- Cleaned and wrangled data sets using Pandas
- Interpreted results and explored the correlations between the different features collected
- Provided insights to Toronto Housing Market potential leasers

## Education

**November 2019 – April 2020** - [WeCloudData](#), Toronto, Canada

Certification in Big Data for Data Scientist (Part-time course)

I learned how to use tools such as Apache Spark, Amazon SageMaker, MLflow, Kafka, Elasticsearch, and Airflow.

**August - October 2019** - [WeCloudData](#), Toronto, Canada

Certification in Data Science with Python (Part-time course)

I learned how to use Python for data analysis, visualization and for predictive modeling

**September 2014 – June 2016** - [Uppsala University](#), Sweden

Master's in Evolutionary Biology – GPA 4/5

**September 2012 – June 2014** - [University of Lorraine](#), France

Bachelor's in Biology - GPA 4/5

## Relevant Courses

- Statistical Methods in Life Sciences, Uppsala University, 2016
- Modeling of Ecological Systems, Uppsala University, 2015
- Statistics in Biology, University of Lorraine, 2013