**Laurent Risser | Bilingual Data Engineer**

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# Skills

**Programming:** Python | Linux | R **Databases:** SQL

**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**](https://genaiz.com/)

* 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
* 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**](http://www.apexa.ca/)

* 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**](https://github.com/walkyrie67/project2_big_data_gilets_jaunes) **-** [**Article 1**](https://medium.com/analytics-vidhya/how-to-create-a-dataset-with-twitter-and-cloud-computing-fcd82837d313) **–** [**Article 2**](https://towardsdatascience.com/create-a-near-live-dashboard-using-twitter-and-aws-18879952e309)

* 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**](https://github.com/walkyrie67/whatsapp_analysis) [**- Article**](https://towardsdatascience.com/get-to-know-your-friends-with-natural-language-processing-nlp-38a1f6e56e09)

* Extracted 8,472 messages from a group chat.
* Transformed an unstructured dataframe to a structured dataframe using the tokenization method on Python with Regex 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**](https://github.com/walkyrie67/flight_delay_prediction) [**- Article**](https://medium.com/analytics-vidhya/will-your-flight-be-late-36818ffe52b3)

* 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 Matplolib, Seaborn and Basemap packages

**Housing Market, Web scrapping & Analysis –** [**GitHub**](https://github.com/walkyrie67/toronto_housing_webscraping) **-** [**Article**](https://medium.com/datadriveninvestor/house-pricing-in-toronto-exploratory-data-analysis-and-correlations-45d2f11475f4)

* 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](https://drive.google.com/file/d/1bALP-GdRGKH59gibndPDweZ3KzSOGn0v/view?usp=sharing), 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](https://drive.google.com/file/d/1oCgPZbQDo_v0qlSenRkki6ukzwTxIZd9/view?usp=sharing), 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](https://www.uu.se/en/admissions/master/selma/program/?pInr=EVBI&pKod=TBI2M), Sweden

Master’s in Evolutionary Biology – GPA 4/5

**September 2012 – June 2014 -** [University of Lorraine](https://www.univ-lorraine.fr/), 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