

## Summary

I am a fast-learner, and I enjoy computer science and foreign languages. I like interacting with very different non-traditional people to better understand how we can all better live together.

Email

g.monod@gmail.com

Website

<https://sarahmonod.github.io>

LinkedIn

Sarah Monod

## Work Experience

**Bloomberg**

Software Engineer

2017 - Current

7 years

Full time position in Python Infrastructure at Bloomberg, New York:

- Maintaining "final boss of C++ extensions" (used by ~6,000 engineers)
- Removing all Python 2.7 in the company (thousands of apps)

Full time position in DT NSD (Data Processing and Acquisition) at Bloomberg, London:

- Designed and deployed reusable components processing millions of time series
- Converted original workflow ingesting Covid data to production-grade in days



Data Science Intern

2016

6 months

Internship in Data Science at Coorpacademy, Paris:

- Developed a Machine Learning recommendation engine with TensorFlow
- Created a streaming pipeline analyzing live business data with Spark



Software Reliability Engineering Intern

2015

4 months

Internship in Large Scale Database Reliability Engineering at Google, Dublin:

- Automated the recovery of a complex data drift problem in MySQL at Google scale
- Diagnosed and fixed problems in a big and highly complex code infrastructure
- Developed in a real production environment affecting users at large



Deep Learning Software Engineering Intern

2014

3 months

Internship in Deep Learning for semantic data in IT security applications at Altran:

- Analyzed semantic meaning of data retrieved by a web crawler
- Stored the extracted data as RDF graph, analyzed it with a neural network
- Performed Deep Learning feature extraction on the collected data (possible passwords)

## Interests

## Diversity &amp; Inclusion Initiatives

Constantly learning how to be a better ally

2018-current

4 years

Started inclusion and privilege discussions (across Bloomberg communities):

- Listened to marginalized groups to better understand their lives
- Advocated for a platform to amplify their voices in the workplace
- Helped organize events where women give technical talks

## Education



Georgia Institute of Technology  
Dual Degree in Computer Science  
2016-2017  
1 year

US Master of Science in Computer Science with Machine Learning major:

- Analyzed real world (financial) data with Machine Learning algorithms
- Working with Autonomous Robotics systems
- Developing a Full-Stack mobile Application



National Institute of Applied Science  
Dual Degree in Computer Science  
2013-2017  
4 years

French Engineering Degree in Computer Science:

- Lead machine learning face recognition and positioning project
- Made compiler from scratch (except regex engine) for simple language in C++ (<https://github.com/fat-gyft/lutcc>)



Paris Descartes Institute  
2-year Computer Science Degree  
2011-2013  
2 years

Started higher education in computer science, after high school

## Skills

### Engineering Skills

#### Collaboration

- Design discussion with peers
- Full ownership of products

#### Design

- Focus on business value
- Automated testing

#### Distributed Systems

- $\mu$ -services architecture
- Python, Go or C++

#### Data Management

- Kafka, MySQL, Oracle
- Document databases + queries

### Communication and Technology Advocate

Teaching and Public Speaking  
2018-current  
2 years

Developed skills related to software development:

- Organized internal software engineering course and mentoring program
- Taught free weekly coding classes to children through Code Club in local library

### Spoken Languages

A big passion

English: Fluent  
German: Fluent  
French: Mother language  
Mandarin Chinese: studied 4 years  
Italian: studied 3 years  
Spanish: Fluent