Gus Monod

Software Engineer in Data Processing and Data Science

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.

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Work Experience

Bloomberg
Software Engineer

2017 - Current
2.5 years

Full time position in **Data Processing and Acquisition** at Bloomberg, London:
- Designed and deployed a **distributed system** processing millions of economics time series
- Responsible of quality + traceability of data, and adapting the tool for evolving and growing base of users and needs
- In charge of an internal web framework with hundreds of daily active users
- Managed the flagship application on the framework acquiring energy generation data

coorpacademy
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

Google
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

ALTRAN
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 & Inclusion Initiatives
Constantly learning how to be a better ally

2018-current
2 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

INSA 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 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
- μ-services architecture
- Python, Go or C++

Machine Learning
- Algorithms and data structures
- Python (sklearn & tensorflow)
- Scala (Apache Spark)

Database Management
- MySQL, Oracle
- MongoDB, GraphQL

Full Stack Development
- Modern JavaScript

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: 114/120 TOEFL, 3y in the UK
French: Mother language
Italian: studied 3 years

German: Fluent
Mandarin Chinese: studied 4 years
Spanish: studied 1 year