# Gustave Monod

## Software Engineer Student in Data Science

**Summary**
I am a fast-learner, and I enjoy computer science and foreign languages. I am constantly looking for new challenges and interesting problems to solve. I am currently doing a dual MSCS Degree and am looking for postgraduate internship opportunities in the Paris area.

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## Work Experience

### Google
**2015**
**4 months**
Software Reliability Engineering Intern

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
**2014**
**3 months**
Deep Learning Software Engineering Intern

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 a RDF graph, and analyzed with a neural network
- Performed Deep Learning feature extraction in the collected data (possible passwords)

### SAP
**2013**
**3 months**
Big Data Software Engineering Intern

Internship in **Big Data** at SAP AG in Walldorf, Germany:
- Optimized of the management of a car park for BMW
- Realized of a calculation engine for the Business Intelligence using Hadoop HBase
- Developed for a **very scalable environment**, with high speed requirements

## Interests

### Spoken Languages
For a long time ;-)

**English:** Fully fluent (TOEFL score: 114/120)
**French:** Mother language
**Italian:** studied 3 years
**German:** Fluent
**Chinese (漢語):** studied 2 years
**Spanish:** studied 1 year

### Student Engagements
2011-2015
4 years
Student Board Member and Representative

Engaged in various activities in the school associations:
- Organized a yearly recruiting event with industry leaders (2015)
- Was elected to represent class mates 4 years in a row
- Directed and played in a theater play

## Education

### Georgia Institute of Technology
Jan 2016 - Current
Master of Computer Science - Machine Learning

Dual Degree - Master of Science in Computer Science with **Machine Learning** major:
- Working with Autonomous Robotics systems
- Developing a Full-Stack mobile Application
- And of course analysing real world data with Machine Learning algorithms

### National Institute of Applied Sciences of Lyon (INSA Lyon)
2013-2017
4 years
Engineering Degree in Computer Science

Dual Degree - 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 University 2-year Degree (DUT)
2011-2013
2 years
Technological University (2-year) Degree of Computer Science

Started higher education in computer science, after high school

## Skills

### Programming Skills

Machine Learning
- Algorithms and data structures
- Python (numpy) or Matlab implementations

Database Management
- MySQL, Oracle SQL
- MongoDB, Redis

General
- Unix administration
- C++, Ruby

Full Stack Development
- Javascript ES6, HTML 5 and CSS 3, Angular.js
- Node.js, Gulp, Jasmine
- Java and Android

## Other Activities

### Hackathons & Competitions

- Realized a 3D modeling software using 3D movements and voice recognition (winning team of fHACKtory 2014)