

# Romain Milon.

## SOFTWARE ENGINEER

Polyvalent, hardworking and thorough software engineer, with over 5 years of programming experience. Looking for an internship starting in February 2021. Would love to work on high-end topics, essentially to have a positive impact on society and to improve its sustainability.

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/Rubilmax

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## Experience

Present  
August 2020

**Techs**  
Java, Spring Boot,  
Python, Django,  
Javascript, React

### Agile full stack engineer Sipios.com

Sipios help banks, insurance companies and startups launch new fintech offers in record time. Development processes combine Sipios' lean and agile expertise with its knowledge of the finance sector to build striking new client experiences

July 2020  
February 2020

**Techs**  
Python  
Tensorflow,  
Multiprocessing,  
Pandas, Numpy

### Software engineer & data scientist Paris Digital Lab

6-month internship during which we design, develop and implement real world digital solutions to meet organizations' innovation needs, using the **scrum methodology** in teams of 3-4 student developers

Python, SpaCy,  
SKLearn, Pandas,  
PyTorch, Selenium,  
NLTK

### Ministère de la Défense

Building a computer vision AI applied to radio transmissions vigilance, based on the YOLO architecture and trained on real-like randomly generated and augmented data  
Achieved **97.5% training/92% validation mAP** on detection and classification

Python,  
Transformers,  
Pandas, PyTorch,  
TKinter, Vue

### Randstad

Trained a cutting-edge Relation Network applied to NLP for job titles & skills normalization, taking advantage of state-of-the-art deep learning techniques (**Zero-Shot Learning, Camembert**), built a simple annotation platform and a light-weight data visualization frontend

June 2020  
November 2019

**Techs**  
Node, Express,  
Firebase, React

### Full stack engineer ConduiteCenter.fr – Junior Enterprise

Added multiple features designed to ease the company's management: graphs, tables, invoices, online payments  
Added CI/CD and documented the repositories for further development  
Developed a new design and refactored the front-end web application

## Initiatives

I worked on multiple tech-oriented projects, either for the school's courses I followed or for personal initiatives. Here are the most relevant in my opinion, which are also available in details on my public [GitHub profile](#):

### Web development galerie.pics

A photography sharing platform available to CentraleSupélec's students to find all the photos of all the events. Designed a new look and added features such as watermark-ing (with a queue)

**Techs:** node.js, MongoDB, Angular, express, sequelize  
40 377 lines of code

### Raspberry Pi FaceRecognition

A small embedded system equipped with a camera recognizes and follow its interlocutor with face embeddings and fine-tuning.

Developed with a team of 3-4 students over a week.

**Techs:** Python, OpenCV, Dlib, SKLearn, PyTorch

### Game development Rubidia

Minecraft extension written in Java, which adds a role-playing dimension. I had to face multiple issues related to game design and real time player interactions. Developed over 4 years and now between the hands of a new team.

**Techs:** Java  
62349 lines of code

### Object-oriented software design FreeFlowGame

A simple game designed and developed in Java with the built-in graphical library Swing, linked to a txt file saving data. Level creation mode and solving mode.

Developed over 24 hours.

**Techs:** Java, Swing

### Deep learning Neural networks from scratch

Built CNNs for MNIST hand-written digits recognition and ImageNet classification from scratch, using numpy. Then used Tensorflow-gpu to improve performances and Keras to build RNNs for finger snap recognition.

**Techs:** Python, numpy, Tensorflow, Keras

## Education

Present  
Feb 2020

### Digital Tech Year CentraleSupélec

Selected to be part of the CentraleSupélec 6-month digital innovation program, during which we design, develop - at the Paris Digital Lab - and implement real world solutions in the areas of **Web & Mobile Development, Internet of Things, Artificial Intelligence and Virtual & Augmented Reality**.

Present  
2018

### Master of Science, computer science and engineering CentraleSupélec

One of France's top engineering schools, part of France's Grandes Ecoles, based on a highly selective and competitive admission process. Referenced in the fields of **Applied Mathematics, Energy, Telecommunication and Computer Science**.

Founder of the school's hairstyle club, captain of the school's Cheerleading team, member of the school's photography club and in charge of its website, member of the school's audiovisual club, member of the school's skydiving team

## Languages

French Native  
English Proficient  
German Intermediate

## Tech skills

 Programming

Python

Typescript

Javascript

Java

PHP



Full stack development

React

Angular

Vue

Node

Flask

Express

MongoDB

PostgreSQL

Redux

Spring Boot



Data science

NLTK

SKLearn

Numpy

Pandas

MySQL

SpaCy



Machine learning

TensorFlow

OpenCV

PyTorch

Keras

## Most proud of

Former CentraleSupélec Teaching Assistant in Information Systems and Programming  
Taught first-year students Python and SQL programming, along with IT systems design  
**Referee:** Guillaume Mainbourg

Former captain of  
CentraleSupélec's cheerleading team  
Coed level 2  
National 2020 champions

Top 3% @ BattleDev coding competition 2020  
5000 contestants

Skydiver, photographer &  
video editor at spare time  
Using Adobe Creative Suite

