SAMUEL AGUILAR LUSSIER

Artificial Intelligence developer

Phone : (514) 831-4485

Email : sam.aglussier@gmail.com

Linkedin : https://www.linkedin.com/in/samuel-aguilar-lussier/

Github : https://github.com/SamuelA-L

Fluent in French, English and Spanish

SKILLS

- Meticulous
- Responsible
- Curious
- Organized
- Excellent capacities in oral and written communications
- Respectful
- Punctual
- Capacity to adapt to different situations
- Capacity to work under pressure
- Capacity to work and coordinate with others

EDUCATION

Professional Masters - 2021-2023
Mila, Montreal
Machine Learning
current GPA : 3.8/4.3

Bachelors Degree - 2017-2021
Polytechnique School, Montreal
Computer engineering - AI Concentration
Final GPA : 3.54/4
Number of units : 120

DESS - 2015-2017
Collège André-Grasset, Montreal
Pure and applied sciences.
Final grade (cote R) : 31.2

EXPERIENCE

Software developper - Current job
Cysca Technologies for Distech Controls (client) R & D
- Deployment of Tensorflow models on proprietary building automation devices.
- Deployment of AI apps as docker containers on building automation devices with in house linux distribution.
- Websocket apps to feed live infrared images for detection models.
- AzureML pipelines and model training

Student Internship - Summer 2020
National Bank of Canada
- *Creation of dynamic analysis tools to monitor the state of databases and micro-services with PowerBI and Splunk.*
- Modification and creation of ETL tasks with Datastage and Control-M.

Student Internship - Summer 2019
EXFO
- Build a benchmark performance tool to compare capacities between different clusters running on the Hadoop framework.
- Develop a data generation tool to send Avro telecommunication schemes to test Kafka consumers for big data tasks.

Student Internship - Summer 2018
IVADO Undergraduate Research Initiation Grant
Montreal Institute of Clinical Research(IRCM)
- Build a Python tool optimized to translate millions of complementary DNA addresses to interpret RNA binding proteins sites of interactions.

SAMUEL AGUILAR LUSSIER

Artificial Intelligence developer

Phone : (514) 831-4485

Email :
sam.aglussier@gmail.com

Linkedin :
https://www.linkedin.com/in/samuel-aguilar-lussier/

Github :
https://github.com/SamuelA-L

Written and spoken languages : French, English and Spanish

References available upon request

COMPETENCES

Experience working with different platforms
Mac OS, Linux, Windows, VMs and Docker

Version control software
Advanced competences in Git and Github and working knowledge of SVN

Programming, data structures and algorithms
Python, Bash, docker, docker-compose, C++, C, Java, etc.

Artificial intelligence
Machine learning (TensorFlow, Scikit-Learn and Pytorch), Local Search, Constraint programming (prolog et minizinc)

PROJECTS

People counter with infrared cameras (Masters project)
- People detection model on infrared images
- DeepSort tracking algorithm modified for project
- Siamese model training for re-identification of targets

Image classification App for Triamec startup
- Convolutional neural network for vegetable classification based on quality and type with TensorFlow
- Image preprocessing with Open-CV
- User Interface for model training and selection with Dash and Plotly

Blockchain Distributed Application
- C++ programming with Kafka and cmake
- Architecture including miners, server and administrator interface with android app.

INTERESTS AND HOBBIES

Programming competition
Coveo Blitz , LH games

Polytechnique Technical Society Polybroue
Beer brewing, tasting and competitive events

Sports & Others
Rock Climbing, cooking, volleyball, video games and outdoor activities