
Summary

Data Scientist | Machine Learning Developer | Software Developer

Post-Graduation Work Permit

French - English

Education

Master's degree , Computer Science Université du Québec à Chicoutimi	2018 - 2020 Canada
Engineer's degree , Computer Science École d'Ingénieur du Littoral Côte d'Opale	2016 - 2020 France
Bachelor's degree , Computer Science Institut Africain d'Informatique	2012 - 2015 Cameroon

Experiences

Data Scientist, Research Intern ACENSI FINANCE	07/2019 - 01/2020 Paris, France
Stock Market Prediction on High-Frequency Data Using Soft Computing Based AI Models	
✓ Implemented a big data system based on Lambda architecture for data collection and stream processing.	
✓ Research and develop Machine & Deep Learning models (SVM, CNN, LSTM, VAE, GAN, etc.) for stock price and direction prediction.	
✓ Investigate the influence of information spread over Twitter on stock markets using state of the art of NLP techniques.	
✓ Design, conduct, and report results; challenge thinking, test theories, evaluate feature concepts and iterate rapidly.	
✓ <u>Tools</u> : Spark Structured Streaming, Kafka, MongoDB, PyTorch, Scala, Scikit-Learn, Jupyter, Zeppelin, Spacy, etc.	
Full Stack Developer - AI, Intern PFC COMMO	05/2018 - 08/2018 Niort, France
Development and integration of new AI models	
✓ Research & develop Machine Learning models (ARIMA, LSTM, MARS, etc.) for fuel and electricity demand forecasting.	
✓ Research & develop AI models for heating oil delivery using Meta-Heuristics for route optimization.	
✓ Develop and integrate automated NLP tools for sentiment analysis (SVM, Naïve Bayes, LSTM, etc.) and text mining.	
✓ Integrate tools & models into firm platforms by developing and maintaining internal API's.	
✓ <u>Tools</u> : Scikit-Learn, Keras, NLTK, Django, Git, React.js, etc.	
Full Stack Developer, Intern IBACENTRAL	05/2017 - 08/2017 Angoulême, France
Design and development of a web application	
✓ Participate in specification, design, implementation, and support of the product, as well as improve existing features and product performance.	
✓ <u>Tools</u> : Node.js, React.js, WebPack, Grunt, Redux, MongoDB, Slack.	
PHP Backend Developer ZAATI CONSULTING	03/2016 - 05/2016 Douala, Cameroon
Design and development of a e-commerce website	
✓ Participate in specification, design, implementation, and support of the product, as well as improve existing features and product performance.	
✓ <u>Tools</u> : PHP OOP, Composer, HTML/CSS/JS.	
System & Network Administrator ZAATI CONSULTING	01/2016 - 03/2016 Douala, Cameroon
Setup of a computer network of 25 computers (Group policies, internal messaging system, VOIP, firewall, etc.).	
✓ <u>Tools</u> : MS Windows 7, MS Windows Server 2008.	

IT Network, Intern

A3C

06/2015 – 09/2015

Yaounde, Cameroon

State of the art of a VPN solution for the interconnection of company branches.

✓ Tools: MS Visio 2013, GNS3, VMWare, RedHat, WIRESHARK, ACL, IPSec.

IT Technician, Intern

ZENITHE INSURANCE

06/2014 – 08/2014

Douala, Cameroon

Implementation of a maintenance procedure for the IT equipment.

✓ Monitoring of the intranet (updates, maintenance routines, repairs as needed).

✓ User support.

✓ Tools: GLPI, OCS Inventory, Team Viewer.

Skills

- ✓ Strong programming skills in **Python, Java, Javascript, SQL** and Scala.
- ✓ Excellent understanding of *computer science fundamentals, data structures & algorithms*.
- ✓ Strong *Software Development* (**Django, Flask, Spring Boot, React.js, Node.js**) and Database Management (**MySQL, Postgres**, Oracle) skills including experience of a modern development workflow using Git, unit testing and CI/CD.
- ✓ Deep understanding of **Machine Learning Algorithms** (Regression, Classification, Clustering, Dimension Reduction, Matrix Factorization, Gaussian Processes, Bayesian Optimization)
- ✓ Deep understanding of **Deep Learning Techniques** (CNN, LSTM, GRU, VAE, GAN, Transformer)
- ✓ Good understanding of **Reinforcement Learning Algorithms** (Generalized Policy Iteration, Dynamic Programming, Monte Carlo, Temporal Difference, Control with Approximation, Policy Gradients)
- ✓ Strong experience working with the following modeling frameworks: **TensorFlow, PyTorch, Keras, MLFlow, Scikit-Learn**.
- ✓ Strong experience in **Natural Language Processing**, specifically Text Classification, Language Modeling and Sequence-to-Sequence Tasks.
- ✓ Good knowledge of **Computer Vision**, specifically Image Processing, Image Classification, Object Detection, Object Tracking, Action Recognition, Image Segmentation.
- ✓ Good knowledge of **Big Data & Analytics**, prior experience with **Kafka, Spark, Zeppelin, MongoDB** and **Cassandra**.
- ✓ Familiar with **Cloud & DevOps** (**Git, Docker, CI/CD, Linux**, GCP, AWS).
- ✓ Good analytical and problem-solving skills, and enthusiastic about learning new tools & technologies.

Certificates

Reinforcement Learning Specialization	06/2020
University of Alberta, Alberta Machine Intelligence Institute	coursera.org
Deep Learning in Computer Vision	05/2020
National Research University, Higher School of Economics	coursera.org
Practical Reinforcement Learning	05/2020
National Research University, Higher School of Economics	coursera.org
Bayesian Methods for Machine Learning	04/2020
National Research University, Higher School of Economics	coursera.org
DeepLearning.AI TensorFlow Developer Specialization	09/2019
Deeplearning.ai	coursera.org
Deep Learning Specialization	08/2019
Deeplearning.ai	coursera.org

Personal Projects

State of the art of Neural Machine Translation (RNN, Attention mechanism, CNN, Transformer, PyTorch, TorchText, Spacy)
State of the art of Text Classification (RNN, CNN, BERT, XLM, RoBERTa, TensorFlow2.x)
State of the art of Question Answering System (DrQA, BiDAF, QANet, RNet, GLoVe, PyTorch)
COVID-19 Face Mask Detector (CNN, OpenCV, TensorFlow2.x)
End-to-end Optical Character Recognition (CNN, OpenCV, TensorFlow2.x)