



Employment

- 2016
Summer
IRIT/CNRS
Intern
- Cross-platform mobile app** 2-person project
- Implemented a cross-platform mobile app for client drawing recognition with ionic2 (Angular2 + Cordova), Node.JS + Express, MongoDB.
 - Suggested to work with web technologies to build cross-platform apps.

Education

- 2016–2017
Master
- Computer Science** UQAC, Canada
- Artificial Intelligence, Data mining, Big data, Security, Cryptography, Algorithms, Data structures, Web semantic
- 2014–2017
Master
- Computing and Applied Mathematics** ENSEEIH, France
- Functional programming, OOP, Operating Systems, Algorithms, Data structures, Web, Semantic and languages translations, Concurrency, Meta-Programming, Numerical Optimization, Linear algebra, Hilbertian analysis, Differential Calculation, Integration, Probabilities, Statistics

Projects

- 2017
- DCGAN image generator** 1-person project
- Implemented a deep learning image generator based on Generative Adversarial Networks. (Python + TensorFlow)
 - Trained it on MNIST to draw digits with 97% accuracy.
- 2016
- Neuro Evolution** 2-person project
- Implemented a feed forward neural network and genetic algorithm to build video game AI solver in unsupervised learning (C#).
- 2017
- Constraint Satisfaction Solver** 1-person project
- Implemented a graph constraints-based solver and applied it on sudoku game. (Python + OCaml)
 - Reduce number of backtrack calls by x600.
- 2016
- Neural-cryptography** 1-person project
- Implemented a cryptographic protocol to exchange key based on neural networks synchronization. (Python)
 - Prevent quantum computing with algorithm that is not based on any number theory.
- 2016
- C# compiler** 2-person project
- Implemented a C# compiler to generate simplified assembly language. (Java)

Technologies

Languages **Java, Go, Javascript, Python, OCaml, C++, C**

Frameworks **TensorFlow, NodeJS, AngularJS, MongoDB**