

# SOULEIMAN AYOUB

## SOFTWARE ENGINEER

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## EXPERIENCES

Initiation to research

Polytechnique Montreal

09/2019 - Now

2900 Boulevard Édouard-Montpetit

- Segmentation du cerveau chez les nouveaux-nés à partir d'images IRM 3D en utilisant des CNN (plus précisément un U-net)

Research assistant

Shriners Hospitals for Children

05/2018 - 08/2018

- Design of an Android application to help children become familiar with their handicap and thus de-stress them and make them more comfortable with themselves

Tutor in Computer Science, Mathematics and Physics

Cegep Bois-de-Boulogne

- Help students from my school with their classes

## PROJECTS

Co-founder of a start-up (unregistered)

Unilinks

Cross-platform Progressive Web App (iOS, android, web) which aims to highlight the interuniversity events of different associations.

Chess AI in Python

Cegep Bois-de-Boulogne

- Implemented : Artificial Neural Network and Alpha-Beta pruning

Angular velocity in arbitrary dimensions

McGill Physics Hackathon

Website that displays the rectangular prism movement with the dimension of your choice (on github).

## REFERENCE

- Dr. Argerie Tsimicalis  
@ argerie.tsimicalis@mcgill.ca  
(514)398-8142
- Others on request

## EDUCATION

Undergraduate in Software Engineering

Polytechnique Montreal

## PROUD OF ...



Recipient of the Admission Excellence Scholarship of the Polytechnique Foundation and from the director general



Prices

- 2nd place CEGEP math competition (COMC)
- 2nd place pitch competition at Polytechnique
- 1st place in my year for the hackerrank competition (top 5 of the university which includes 115 people in software engineering)



Participated in 2 CTF & 6 Hackathons

HackM9 Collège Rosemont ctf  
Hackathon d'AI à UdeM (Lode Runner)  
HackQC LHGames  
McGill Physics Hackathon  
Hackathon bd

## TECHNOLOGIES

Python Javascript Java C/C++  
HTML CSS Angular Brainfuck

TensorFlow scikit-learn Numpy  
Pytorch Git Ionic Angular  
Firebase p5.js flask & django  
Many others

## LANGUAGES

French ●●●●●

English ●●●●●

Arabic ●●●●●