

SOULEIMAN AYOUB

I've studied at Polytechnique in software engineering. I describe myself as a person with integrity, hardworking and passionate. Combining my two greatest passions, mathematics and programming, I have been challenging myself by developing software for 8 years now. Finally, I think that good communication is what makes a great team.

CONTACT

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in Souleiman Ayoub

SKILLS

Programming Languages

Python ●●●●●●●●
Java ●●●●●●●●
TS/JS/HTML/CSS ●●●●●●●●
C/C++ ●●●●●●●●
Solidity ●●●●●●●●
Kotlin ●●●●●●●●

Software & Tools

Machine learning ●●●●●●●●
(e.g. tf, sklearn, statsmodels ...)

Visualisation ●●●●●●●●
(e.g. matplotlib, seaborn, ...)

Data handling/analysis ●●●●●●●●
(e.g. numpy, scipy, pandas, ...)

Front End ●●●●●●●●
(e.g. Angular, React, ...)

Back End ●●●●●●●●
(e.g. Django, Flask, ...)

AWS ●●●●●●●●
(e.g. lambda, opensearch, dynamodb, ...)

Azure ●●●●●●●●

Languages

French ●●●●●●●●
English ●●●●●●●●

WORK HISTORY

- 📅 Jan 2022 - Present **Consultant**
📍 Omnia, Deloitte
- Developed a webapp in a team where I worked with React and Django
 - Worked with a multitude of **AWS services** (Opensearch, DynamoDB, Lambda, ...)
 - Another project used K8, Web3, React
- 📅 May 2021 - Aug. 2021 **Data Science Internship**
📍 Desjardins Group, Montreal
- Designed an **unsupervised model** capable of consolidating the financial profile of multiple users
 - Developed a **Flask REST API**
 - Presented multiple times our team's work to Desjardins partners and in front of Guy Cormier
- 📅 May 2020 - Aug. 2020 **Data Science Internship**
📍 Mitacs - Eduplan Solutions, Montreal
- Created many ML models in **Python** whose purpose would be to recommend means and goals to students then compared the models with each other thanks to performance metrics
 - Extracted information from the database using **SQL**
- 📅 Sept. 2019 - May 2020 **Initiation to ML Research**
📍 Polytechnique Montreal
- Brain **segmentation** of newborns from 3D MRI scans using **Computer Vision**
 - Scraped a website to download the database

EDUCATION

- 📅 Aug. 2018 - Dec. 2021 **Bachelor in Software Engineering**
📍 Polytechnique, Montreal
- 📅 Aug. 2016 - May 2018 **DEC in Computer Science & Math**
📍 College Bois-de-Boulogne

ACHIEVEMENTS, HONOURS AND AWARDS

- 🏆 Recipient of the AWS Certified Machine Learning - Specialty certification
- 🏆 Recipient of the AWS Cloud Practitioner certification
- 🏆 Mention of Excellence for outstanding performance at Polytechnique Montreal (GPA : 3,63/4)
- 🏆 Recipient of the Admission Excellence Scholarship at Polytechnique Montreal
- 🏆 2nd place in a pitch competition at Polytechnique Montreal
- 🏆 2nd place in a math competition at College Bois-de-Boulogne (COMC)

SOME COMPLETED PROJECTS

Unilinks | *Ionic, Angular, Firebase*

- Cross-platform Progressive Web App (IOS, Android, Web) which aims to highlight the interuniversity events of different associations.
- 60 downloads of the application

Exo Computer Vision Project – Fourth Year Project (LOG8985) | *Python*

- My team and I were tasked to determine the approximate occupancy rate of parking thanks to recordings of multiple cameras per parking
- Made complex algorithms, used PyTorch and Tensorflow and made a PostgreSQL Database

ChessAI | *Python, Pygame*

- Reprogrammed the chess engine that I made in high school but with a better architecture and in another language
- AIs made from scratch: Supervised ML algorithm and Alpha-beta pruning
- <https://github.com/souleiman2/ChessAI>

Third Year Project (LOG3900) | *Kotlin, Angular, Node, GraphQL*

- My team and I made a drawing app (similar to skribbl.io) that worked on PC as well as Android. This program communicated thanks to a server which we coded as well. We implemented virtual players (bots) that were able to draw as well

HACKATHONS

- **Google Tech Challenge**
- **McGill Physics Hackathon:** Angular velocity in arbitrary dimensions (on github) 4th place
- **AI Hackathon at UdeM** 6th place
- **HackQC** (3 days): environmental website that took data from a database and used a back-end made with Django
- **ConcordAI Artificial Intelligence Hackathon**
- **LHGames**
- **Hackathon BDC**
- 2 Capture The Flag

References available upon request