Souleiman Ayoub

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SUMMARY

- Software Engineering student at Polytechnique Montreal
- 7 years experience in programmation
- Graduation planned for December 2021
- Familiar with the Agile and Devops practices
- Honest, hard-working, passionate and ease in interpersonal relations

EDUCATION

Polytechnique Montreal   Montreal, Canada
Bachelor in Software Engineering   *Aug. 2018 – Present*
- Recipient of the Admission Excellence Scholarship
- Mention of Excellence for outstanding performance (GPA : 3,63/4)
- 105 credits completed

College Bois-de-Boulogne   Montreal, Canada
DEC in Computer science and mathematics   *Aug. 2016 – May 2018*

Beaubois   Montreal, Canada
High School   *Aug. 2011 – May 2016*
- Programmed alone a chess engine with Xojo that records move, let's the user undo a move and let's you choose your game mode (Bot/Human vs Bot/Human)

EXPERIENCE

Data engineering internship   Summer 2021
Desjardins Group   *Montreal, Canada*
- Part of a dynamic team of interns who had to come up and create a product that could help young adults with their financial autonomy
- Developed a model that was able to group different users financial profile
- Development of a Flask API
- We gave multiple presentation of our team's work to partners of Desjardins and even one to Guy Cormier

Software engineering internship   Summer 2020
Mitacs in collaboration with Eduplan Solutions   *Montreal, Canada*
- Development of a **Flask REST API** whose purpose would be to input students profiles to recommend goals and means for them using machine learning
- Made many AI models and compared them with each other by basing their performance on different metrics
- Documented the algorithms and strategies used and gave oral reports on the progress of the work
- Accessed the database through **SQL**
- Critiqued the user interface and the security of the platform during weekly meetings

Initiation to research   Sept. 2019 – May 2020
Polytechnique Montreal   *Montreal, Canada*
- Goal : Brain segmentation on newborns from 3D MRI scans using machine learning in computer vision
- Automated the download of the database (web scraping)
- Documented the code vigorously

Research assistant   Summer: 2017 – 2018
Shriners Hospitals for Children   *Montreal, Canada*
- Creation of a native Android application to help children become familiar with their handicap by playing instructive games

- Made the whole app UI/Logic

Tutor in Computer Science, Mathematics and Physics
2017 – 2018
College Bois-de-Boulogne
Montreal, Canada
- Vulgarized the content of my classmates' lessons and helped adults learn the basics of programming
- Planned which exercises they should do for the next meeting
- Wrote reports of their progress to the administration

PROJECTS

Co-founder of Unilinks | *Ionic, Angular, Firebase*
- Cross-platform Progressive Web App (IOS, Android, Web) which aims to highlight the interuniversity events of different associations.
- Summary: 60 downloads of the application

Embedded Systems – First Year Project (INF1900) | *C/C++, Makefile*
- Programmed with my team a line following robot that can also detect line patterns with sensors, detect boxes and move with precision

ChessAI | *Python, Pygame*
- Reprogrammed the chess engine that made in high school but with a better architecture and in another language
- Better AIs made from scratch: Supervised ML algorithm and Alpha-beta pruning

Housing website | *Angular, Firebase, Boostrap*
- Made a website that showcases buildings to sell or loan
- Dynamic so that modifications can be done easily without having to program

TECHNICAL SKILLS

Languages: Python, Java, Javascript, C/C++, Julia, HTML5/CSS, XML
Frameworks: Ionic, Angular, React Native, Node.js, Flask, Django

COMPETITIVE EVENTS

2nd place in a CEGEP math competition (COMC)
2nd place in a pitch competition at Polytechnique for presenting Unilinks
5th/115 in a HackerRank competition in my university
Chess: Repeatedly winning regional and provincial tournaments in my division and currently have a score of 1714 on lichess.org
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