

ABDEL RAHMAN IBRAHIM
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EDUCATION

Université de Montréal, Montréal, Quebec
Bsc. in Mathematics and Computer Science

Expected graduation, September 2025

- **GPA:** 3.64/4.00
- **Related Coursework:** Data Structures and Algorithms, Web Design, Computer Architecture and Programming, Object-Oriented Programming, Statistics, Linear Algebra, Real Analysis, Discrete Structures, Theoretical Computer Science, Differential geometry, Quantum Computing.

EXPERIENCE

101.org

Developer, Volunteer

Cairo, Egypt (Remote)

June 2021 – July 2024

- I contributed to the organisation's online presence by maintaining the website, designing and building web applications (MERN) that are used by hundreds, and creating graphics to enhance visual content.

PROJECTS

Timetable Manager

Project Link: <https://github.com/AbdelRahm4n/timetable-manager>

Montreal, QC

June 2023

- Application built with Java designed to help students manage their schedules efficiently. The app provides features for adding, modifying, and viewing courses, including lectures, labs, and exams. Currently working on a GUI to make it a webapp.

Machine Learning emotion detector

Project Link: <https://github.com/AbdelRahm4n/emotionDetectorML>

Montreal, QC

November 2023

- A real-time emotion detection system implemented using Python, OpenCV, and a pre-trained deep learning model. The project captures video input from a webcam, detects faces in the frames using the Haar Cascade classifier, and then applies a pre-trained Convolutional Neural Network (CNN) model to recognize the emotion expressed on each detected face.

Machine Learning Match Predictor

Project Link: <https://github.com/AbdelRahm4n/PythonEPL>

Montreal, QC

January 2024

- This is a PL match predictor using web scraping and data cleaning with BeautifulSoup, Pandas and an ML model with error measuring and predicition improvment using Scikit-Learn.

MERN Task Manager Montreal, QC Project link: <https://github.com/AbdelRahm4n/task-manager> July 2024

- Task management application with a tile-based interface, developed using the MERN stack (MongoDB, Express.js, React, Node.js). It features secure authentication and supports CRUD operations (Create, Read, Update, Delete) for users.
- Uses REST APIs for frontend-backend communication, secured by JWT. The backend handles HTTP requests and MongoDB operations, while the frontend displays real-time data.

ACTIVITIES

Université de Montréal's Computer Science and Operations Research Podcast

Team member and Editor

Montreal, QC

March 2024 - Present

- Helped interview leading researchers such as Gilles Brassard in addition to editing the podcast before its release.

SKILLS

- **Programmation and Libraires :** Java, Python (PyTorch, TensorFlow, SciKit-Learn) JavaScript (TypeScript, React, Node, Next, Express), HTML, CSS (Framer Motion), PHP, MongoDB, RESTful APIs, R, Assembleur MIPS, Haskell, Lisp, C, SQL.
- **Logiciels :** IntelliJ, PyCharm, VSCode, AWS, Jupyter Notebooks, Git, Photoshop, Illustrator, Audition