ILYES GASMI

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EDUCATION

McGill University   **August 2020 - December 2023**
Bachelor's, Software Engineering

PROFESSIONAL EXPERIENCE

BOMBARDIER   **Montreal, QC, Canada**
Engineer intern   *May 2023 - August 2023*
- Created an internal website designed to improve the editing of the customer database, by implementing a Vuejs front-end and a Python FastAPI backend
- Migrated the database from an excel file to an SQLite internal database

Libro Reserve   **Montreal, QC, Canada**
Software Developer   *September 2022 - May 2023*
- Developed a Software-as-a-service stateless web application using Ember.js and Ruby on Rails.
- Created complex Ember.js components and refactored legacy components using common front-end technologies (JavaScript, JQuery, CSS modules). Occasional use of Preact
- Used and implemented RestAPI on a Ruby on Rails back-end to gather data to the front-end
- Completed database migrations using Ruby on Rails' ActiveRecord
- Code-reviewed and tested other developers' work for QA purposes
- Participated in sprint planning, groomed tasks, estimated stories for the next sprint

Libro Reserve   **Montreal, QC, Canada**
Software developer intern   *May 2022 - September 2022*

Libro Reserve   **Montreal, QC, Canada**
Technical support   *July 2021 - May 2022*

PROJECTS & OUTSIDE EXPERIENCE

Vision-guided Navigation Assistance for the Visually Impaired   **January 2022 - December 2023**
- Currently working in a team of 4 on VNAVI, an Android and iOS app that helps visually impaired people reach objects of interest by performing camera captured image analysis and giving audio navigation.
- Technologies used: React Native, Python Flask, Docker, Git

LoadMatch   **November 2023 - November 2023**
- Full-stack development using Vue.js for frontend, FastAPI for backend, and Redis as a cache
- Implemented server-side events for real-time notification of new matches, derived from a heuristic algorithm
- Won 3rd place at McGill's CodeJam 13 Hackathon for this challenge

Amber - Intelligent LLM Chatbot   **July 2023 - September 2023**
- Implemented a RESTful API using FastAPI, leading to efficient communication with the large language model using HTTP requests.
- Created an SQLite database to persist message history and chatbot personalization settings, which enabled our language model to retrieve and remember its previous conversations and change its personality according to predefined user variables.
- Built a user-friendly frontend using Vue.js with tight integration with the FastAPI backend, resulting in a seamless user experience.
- Enhanced chatbot responses by implementing an emotion keyword recognition system, allowing the language model to recognize and express more accurately its emotion to the user.
- Engineered prompts to optimize the chatbot's conversational flow, resulting in more accurate and relevant responses.

Food Wizard   **November 2022 - November 2022**
- Created a fully responsive mobile application within 24 hours that can suggest recipes based on a picture taken by the user or any uploaded image.
- Integrated the Google Cloud Vision API to generate the most relevant labels for the image and fed the most relevant ones to the Edamam API, containing a database of more than a million recipes.
- Presented the project to 2 different panel of judges and received an honorable mention for the project with the most overall votes

Course tracker
- Worked with a team of 11 to develop a mobile application that would help students organize their time more efficiently.
- Technologies used: Gradle, Spring, React Native, Git, Heroku, Github Actions

SKILLS & INTERESTS

Skills: JavaScript, Git, HTML/CSS, Java, React.js, React Native, SQL, Python, Vue.js
Interests: Weight lifting, Boxing, Investing, Reading, Cooking, Marketing, Hackathons