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# GABRIEL CABALLERO

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## EDUCATION

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McGill University

August 2022 - May 2026E

*Bachelor of Science, Major Computer Science - Artificial Intelligence*

*Montreal, QC*

- Candidate for a Minor in Mathematics
- Relevant Courses: Calculus III, Probability, Algorithms and Data Structures, Discrete Structures, Intro to Software Systems

MITx MicroMasters Program

September 2020 - April 2021

*Statistics and Data Science*

*edX*

- 6.431x: [Certificate in Probability, the Science of Uncertainty and Data](#)
- 6.86x: [Certificate in Machine Learning with Python](#)

## SKILLS & PROJECTS

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Technical Skills: C, Java, Python, JavaScript, TypeScript, React, React Native, Node.js, Processing, Git, SQL, MongoDB, GraphQL

Languages: Spanish (Native), English (Fluent), French (Intermediate)

Digit Recognition

*Python (SciPy, PyTorch, NumPy, Matplotlib)*

[github.com/gabbrousset/digit-recognition](https://github.com/gabbrousset/digit-recognition)

- Innovatively built a digit recognition AI model using fundamental programming and mathematical constructs instead of specialized neural network packages
- Achieved high accuracy (99.16% with a CNN) and low loss rates (0.036 with a CNN), demonstrating the model's effectiveness and efficiency
- Trained neural networks to recognize two overlapping numbers from the multi-digit MNIST database, addressing a more complex and realistic data challenge

Snake Game Mobile App

*React Native*

[github.com/gabbrousset/snake-game-rn](https://github.com/gabbrousset/snake-game-rn)

- Developed a mobile app with React Native, and successfully published on the App Store and Play Store generating over 300 combined downloads and 20,000 impressions

Finance Sim

*Flask, Python, SQL*

<https://finance.gabbrousset.dev>

- Coded a web portal for real-time stock market simulation, leveraging Yahoo's Finance API for live data
- Collaborated with a finance student to teach stock market investments to users; the website was later used for a competition with a flawless user experience and reliability

Codenames

*React, Node.js*

[github.com/gabbrousset/codenames](https://github.com/gabbrousset/codenames)

- Engineered an online, multiplayer version of the popular board game 'Codenames'
- Implemented WebSockets to support real-time gameplay and interaction

## EXPERIENCE

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HopperCat Apps

July 2020 - April 2022

*Full-Stack Developer*

- Contributed to the development of a cross-platform mobile application using React Native, deployed on iOS and Android devices, with a reach of over 100,000 users
- Developed proficiency in using Git and effectively collaborated with a team of three developers, utilizing Scrum methodology to streamline project workflows and enhance team productivity
- Led the development of a comprehensive web redesign with React, ensuring a responsive and intuitive user interface, focusing significantly on implementing robust authentication features

## INTERESTS & EXTRACURRICULARS

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Events: 2023 ICPC NA Qualifier (20/151), 2023 ICPC Northeast NA Regional Contest, 2024 M(IT)^2 - MIT Informatics Tournament

Clubs: Chess Club, Competitive Programming Club, GameDev Club, McGill AI Society

Interests: Lockpicking, speed-solving Rubik's cubes, DJing, chess, cinema, motorsports, trivia, tennis, basketball, and NYTimes puzzles