

Michael Banna

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EDUCATION

Polytechnique Montréal

Bachelor of Engineering in Software Engineering

Montréal, QC

Aug. 2021 – May 2025

Collège Stanislas

French Baccalaureate in Computer Science, Mathematics, Physics and Chemistry

Montréal, QC

Aug. 2018 – May 2021

PROJECTS

Music Streaming Service | *HTML/CSS/JS, Node.js, MongoDB, React*

September 2022 - November 2022

- Designed an intuitive Spotify-inspired song and playlist browsing UI with variable widths for different devices
- Built functional music player controls as well as a playlist editor using dynamic React components
- Implemented data persistence using a MongoDB database accessed through Express routes
- Evaluated functionality using thorough unit tests with e2e and Jest

Chess Game | *C++, Qt*

March 2022 – May 2022

- Developed a fully playable chess game using object-oriented programming principles
- Implemented an end-of-game scenario select screen in order to more easily showcase checkmate functionality
- Used Qt as a graphical user interface framework with various icons and text indicators

Integrated Hardware Engineering Project | *C++, AVR-LibC*

January 2022 – April 2022

- Participated in an intensive group learning curriculum involving experimentation with a physical Atmel microcontroller connected to several buttons, sensors, motors and LEDs
- Programmed a robot capable of executing various moves such as following a light source, avoiding a wall, and performing a U-turn

Movie Recommendation App | *HTML/CSS/JS, Python, Flask*

January 2022

- Worked in a team of 4 to develop a full stack web app which makes use of the IMDb API to produce relevant movie recommendations
- Designed a coherent user experience with dynamic effects and a responsive layout for mobile devices

EXPERIENCE

Laboratory Technician

September 2022 – Present

Jean Coutu Group

Montréal, QC

- Cooperates with a team of technicians and pharmacists to fulfill prescriptions and ordinances in a fast-paced high-volume environment
- Manages patient files using proprietary software to administer or verify prescription renewals, add insurance benefits and enter other personal information
- Prepares medication including narcotics and controlled substances, and assembles magistral medicine with precision and care

Graphic Designer

March 2020 – August 2022

Freelance, Engineers Without Borders

Montréal, QC

- Managed multiple projects simultaneously in order to meet tight deadlines
- Developed visual identities for physical and online presences depending on clients' needs and preferences
- Delivered consistent quality design assets packaged within easy-to-use branding kits

PrideHacks Participant

July 2022

QueerTech

Montréal, QC

- Collaborated with fellow web and UI/UX designers to build concepts and solutions for non-profit organisations that serve 2SLGBTQ+ communities

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, JavaScript, Java, Swift, ASM x86, VHDL

Frameworks: Node.js, React, Flask, WordPress, TailwindCSS, SwiftUI

Libraries: pandas, NumPy, Matplotlib, Jupyter, Gradle, Jest, e2e, Express

Developer Tools: Git, ngrok, MongoDB, VS Code, Visual Studio, PyCharm, IntelliJ IDEA, Xcode

Design Tools: Figma, Adobe Creative Cloud, Affinity Suite