

Michael Banna

(514) 961-3636 | michael@banna.dev | banna.dev

EDUCATION

Polytechnique Montréal

Bachelor of Engineering in Software Engineering

Montréal, QC

Aug. 2021 – May 2025

The University of British Columbia

Exchange Semester

Vancouver, BC

Sep. 2023 – Dec. 2023

Collège Stanislas

French Baccalaureate in Computer Science, Mathematics, Physics and Chemistry

Montréal, QC

Aug. 2018 – May 2021

PROJECTS

Find The Difference Game | TypeScript, Angular, Node.js, Express, MongoDB

January 2023 – April 2023

- Designed a dynamic web app based on a Node.js/Express server and an Angular client using Material UI elements
- Implemented multiplayer game functionality using Socket.IO and deployed on GitLab Pages and AWS
- Established data persistence for games and matches using a MongoDB database
- Developed a game creation system which provides drawing tools for image manipulation and uses a breadth-first search algorithm to detect the differences between two images

Music Streaming Service | JavaScript, React, Node.js, Express, MongoDB

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

EXPERIENCE

Web Developer Intern

June 2023 – Present

Fastercom Inc.

Montréal, QC

- Develops and enhances features for an online vehicle fleet management and optimization platform using React and TypeScript, resulting in improved functionality and user experience
- Utilizes various libraries including Storybook, Chakra and Lodash to streamline development processes and improve code efficiency, resulting in faster loading times and smoother performance
- Collaborates closely with a team of software developers, project managers, and fellow interns to identify and address challenges, finding innovative solutions to optimize the platform's performance and meet project goals effectively

Laboratory Technician

September 2022 – August 2023

Jean Coutu Pharmacy

Montréal, QC

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

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, JavaScript, TypeScript, Java, SQL

Frameworks: Node.js, React, Angular, Svelte/SvelteKit, Flask, TailwindCSS, ChakraUI

Libraries: Jest, Mocha, Chai, Karma, Storybook, Express, Socket.IO, pandas, Jupyter, Gradle

Developer Tools: Git, MongoDB, VS Code, Visual Studio, IntelliJ IDEA, Android Studio, PostgreSQL, AWS, Azure

Design Tools: Figma, Adobe Creative Cloud, Affinity Suite