Michael Banna

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EDUCATION

Polytechnique Montréal — Montréal, QC
Bachelor of Engineering in Software Engineering — *Aug. 2021 – May 2025*

The University of British Columbia — Vancouver, BC
Exchange Semester — *Sep. 2023 – Dec. 2023*

Collège Stanislas — Montréal, QC
French Baccalaureate in Computer Science, Mathematics, Physics and Chemistry — *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 – August 2023
Fastercom Inc. — *Montréal, QC*
- Developed and enhanced features for an online vehicle fleet management and optimization platform using React and TypeScript, resulting in improved functionality and user experience
- Utilized various libraries including Storybook, Chakra and Lodash to streamline development processes and improve code efficiency, resulting in faster loading times and smoother performance
- Collaborated 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 – Present
Jean Coutu Pharmacy — *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

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, PostgreSQL, AWS, GitLab Pages, Netlify
Design Tools: Figma, Adobe Creative Cloud, Affinity Suite