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*

PROJECTS

Friend Commuting Android App | *Java, Android Studio, Espresso, JavaScript, Node.js, Azure* | ⍟   Nov. 2023
- Developed Android app with Google Sign-In, Maps, and Calendar integration, featuring an intuitive UI and dynamic tabs for user-friendly navigation.
- Engineered an Express server with MongoDB, implementing algorithms for optimal transit routes, user matching, and collaborative commuting.
- Designed frontend with Espresso UI testing, following software engineering principles for functional and non-functional requirements.
- Integrated a backend algorithm suggesting points of interest based on user downtime and geographical proximity, ensuring compliance with RESTful service standards.

Find The Difference Web Game | *TypeScript, Angular, Node.js, Express, MongoDB* | ⍟   April 2023
- Designed a dynamic web app with Angular and Node.js/Express, implementing a multiplayer game with Socket.IO and deploying on GitLab Pages and AWS.
- Established data persistence using MongoDB for games and matches, while developing a game creation system with image manipulation tools.
- Implemented a breadth-first search algorithm to detect differences in the game.

Music Streaming Web App | *JavaScript, React, Node.js, Express, MongoDB* | ⍟   Nov. 2022
- Designed an intuitive song and playlist browsing UI with React, ensuring responsiveness across various devices.
- Implemented data persistence using a MongoDB database accessed through Express routes.
- Evaluated functionality through comprehensive unit tests, including e2e testing and Jest.

EXPERIENCE

Web Developer Intern   June 2023 – Dec. 2023
Fastercom Inc.   *Montréal, QC*
- Developed and enhanced features for an online vehicle fleet management and optimization platform using React and TypeScript, significantly improving functionality and user experience.
- Utilized various libraries, including Storybook, Chakra, and Lodash, to optimize development processes and enhance code efficiency, resulting in faster loading times and smoother performance.
- Collaborated closely with a cross-functional team of software developers, project managers, and fellow interns to identify and address challenges, providing innovative solutions to optimize the platform's performance and successfully meet project goals.

Laboratory Technician   Sep. 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: JavaScript, TypeScript, Java, SQL, HTML/CSS, Python, C/C++
Frameworks: Node.js, React, Angular, Svelte/SvelteKit, Astro, CapacitorJS, Flask, TailwindCSS, ChakraUI
Libraries: Jest, Mocha, Chai, Karma, Espresso, 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