Nathan Lapak

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Education

University of Alberta   **Edmonton, AB**
Bachelor of Science Specialization in Computer Science   *September 2023 – Present*

MacEwan University   **Edmonton, AB**
Bachelor of Science in Computer Science.   *September 2022 – June 2023*

Work Experience

Revolution Cycle   June 2023 – August 2023
Full-Stack Developer

- Assisted in the development of the Revolution Cycle Ski and Boardwebsite. The development team consisted of two other full-stack developers and a web designer.
- The website uses **Svelte**, **SvelteKit** and **PostgreSQL** as its tech stack and **Figma** to help collaborate in designing. The new website improves user experience, facilitates transactions between both Revolution cycle stores, and refactors the codebase to help make future development easier.
- The software development process uses Gitlab, Docker, CI/CD practices and Git feature branches.

Projects

Receipt-Scanner Application | *[GitHub](#)*   November 16, 2023 – November 17, 2023

- Web application created with other University of Alberta students in engineering and computer science. Built for the HackED Beta 2023 Hackathon.
- The application takes a photo of a person's receipt, analyzes and scans the different items on the receipt, then outputs the different items purchased onto a html table.
- The frontend was built using React and Tailwind for web design and UI. The backend was built using OpenCV for computer vision and PyTesseract for optical character recognition.

Movie Rental-App | [GitHub](#)   November 1st, 2022 – December 1st, 2022

- Web application created with other computer science students at MacEwan University for the MacEwan CS hackathon 2023.
- The website is meant to act like a movie rental website where users can rent movies, create an account, browse popular or trending movies. It uses The Movie Database API to get movie data, ratings, and more.
- My part focused on building the frontend and using TMDB API to get data about movies.

Music Composition | [GitHub](#)   November 2021- January 2022

- Used the EarSketch DAW and Python to combine different audio samples to compose a song.
- Runner-Up to the Amazon Future Engineer "Your Voice is Power" competition for Fall 2021.
- Listen to the song [here](#) and check out the results of the competition by clicking [here](#).

Skills

Languages: Python, JavaScript/TypeScript, HTML/CSS, SQL
Libraries: React, Svelte, SvelteKit, Tailwind, Bootstrap, NextJS, Flask
Technologies: Git, Docker, Command Line, PostgreSQL, Figma.