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Experience

Audioworks

May – Aug 2023

Web & Mobile Developer Intern

- Engineered an asynchronous pagination solution using **React Native** and **RTK Query** to integrate our mobile music player with user song feeds, creating a seamless user experience
- Enhanced the mobile song player with scrubbing, shuffle/repeat, and remote controls; leveraged the **React Context API** for queue state management across the app
- Implemented UI and API updates using **React**, **React Native** and **ts-ax** for components such as profile editing modals, messaging screens, and expanded music player views

Verticalscope

Sep – Dec 2022

Software Engineer Intern

- Contributed to a POC for **decoupling** three large websites by creating custom **JavaScript API** endpoints using **Strapi's CMS** with **GCP** buckets, improving organization and maintainability
- Created a site element visibility toggle using cookies and **PHP**, enabling experiments for **optimizing ad ROI**
- Authored end-to-end tests in **Cypress**

Kaleidescape

Sep – Dec 2020

Software Engineer Intern

- Utilized **JavaScript** and **HTML5/CSS3** to develop and improve dynamic user interfaces across multiple pages
- Updated relational databases and APIs using **SQL** migration scripts and **PHP** to implement backend and data changes

PerkinElmer

Jan – April 2022

Machine Learning Engineer Intern

- Led the integration of transfer learning within a project using **PyTorch**, a necessity for achieving incremental learning

Applied Brain Research

May – Aug 2021

Deep Learning Developer Intern

- Spearheaded the end-to-end machine learning development of autoencoders using **Keras** for trajectory prediction

Fugro

Jan – May 2020

Software Developer Intern

- Deployed a pre-trained **PyTorch** model in **C++**, replacing the use of **CNTK** and optimizing inference time by **78%**
- Optimized coordinate extraction algorithm in **C++** to operate on images asynchronously, improving efficiency by **33%**

Education

University of Waterloo

2024

BASc. in Mechatronics Engineering

Udemy

2022

Web Development Courses

Skills

TypeScript

JavaScript

Python

SQL

PHP

HTML5

CSS3

Git

React.js

React Native

Next.js

Tailwind CSS

Node.js

Express.js

Cypress.io

MongoDB

GCP

Projects

workout-tracker

React.js

Express.js

Node.js

MongoDB

- Developing a full-stack **MERN** web application for managing workout plans
- Constructing components with **React**, **Headless UI**, and **Tailwind CSS**, inspired by the UI/UX of a popular workout app
- Building **RESTful APIs** with **Express** and storing data in **NoSQL** databases

recipe-finder

React.js

Express.js

Node.js

- Built a website with an **Express** middleware and **React** frontend, utilizing a **third-party API** for finding recipes
- Achieved responsive components using **React** and the **Material-UI** library to display recipes and search filters

personal-site

React.js

Next.js

Tailwind CSS

- A **Next.js** app built to showcase my work and refine my UI skills, with a focus on high performance, accessibility, aesthetics and interaction design