

Muhammad Sohail

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EDUCATION

McGill University

September 2020 – Present

Bachelor of Science in Honours Computer Science

Montreal, Quebec

- 4.0 / 4.0 cGPA. Coursework in Algorithms and Data Structures, Software Systems and Computer Systems/Architecture. Dean's List 2020-2022.

EXPERIENCE

Pattern Labs

May 2022 – August 2022

Software Engineering Intern

Toronto, Ontario

- Designed and implemented scalable and modular backend services using Docker, Node, and Express, with a focus on future extensibility, reliability, and ease of adoption
- Used Chai and Jest for integration and unit testing and quality assurance to avoid production errors
- Set up robust metrics and a dashboard for our production API using Datadog to assist on-call engineers with incidents
- Developed asynchronous serverless applications using AWS Lambda, Cloudwatch, and Terraform to automate resource syncing with 3rd party APIs by up to 90%
- Used Looker, Snowflake, and dbt to construct ETL pipelines and dashboards, reducing manual calculations by 100% and helping our organisation gain insights into our payment metrics
- Worked in an Agile team, collaborating with designers, product managers, and operations to ensure a high-quality product

PROJECTS

Wrappedify | Python, Django, D3.js, Redis, Celery, Heroku

December 2021

- Developed a full-stack data analysis solution with Spotify's Web API, built using Python and Django's web framework
- Visualised users' listening statistics with interactive graphics using D3.js
- Used AJAX, Celery, and Redis to improve the website's UX by running asynchronous data analysis

Personal Site | React, TypeScript, Sass, Bash

June 2022

- My personal site I created using TypeScript React and Sass, complete with a photo gallery for my photography and a snake game. Used Google Analytics to monitor traffic

Spotify Dashboard | Python, PostgreSQL, Tableau Desktop

July 2022

- Created a Tableau dashboard by using Python to clean, filter, and insert my listening data into a PostgreSQL database, allowing me to gain key insights about my listening behaviours

TECHNICAL SKILLS

Languages: Python, Java, C, SQL (Postgres), JavaScript, TypeScript, HTML, CSS/Sass, Bash, MIPS Assembly

Frameworks: React, Node, Express, Django, Jest

Technologies: Git, Unix/Linux, Windows, AWS, Docker, Postman