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 for our production API using Datadog to assist on-call engineers when incidents arose
- 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 become data-driven
- 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