

Arneet Singh Kalra

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EDUCATION

McGill University

Bachelor of Software Engineering: Internship Program

Montreal, QC

Expected April 2022

- Cumulative GPA: 3.70 / 4.00
- Teaching Assistant for COMP 421: Database Systems (Winter 2022)
- VP Finance BioDesign, Previously VP Sponsorship MEC and Finance Coordinator BioDesign

EXPERIENCE

Software Engineering Intern

June 2021 – Aug. 2021

Publicis Sapient

Toronto, ON

- Created an internal credit utilization monitoring tool for an industry-leading Canadian Banking client with the goal of reducing the CAM's waiting period by **85%**.
- Developed the full-stack web application with React, Spring, and MSSQL, and utilized React-Bootstrap, Axios, and Victory in the frontend.
- Completed unit testing for the back-end and front-end repositories, achieving **80% unit-test code coverage**.
- Completed the project three weeks in advance, and further developed stretch insight and metric goals for the client.

Java Developer Intern

Jan. 2021 – May 2021

Grey-Box

Montreal, QC

- Led a team of developers to create a Portable Dropbox interface for clients to upload custom files to the Android box hotspot. Developed using Java, Javascript, HTML, and CSS.
- Developed a Web Scraper in Python allowing users to download dedicated web pages including images and videos locally on to the Android box working effectively on **75% of tested websites**.
- Worked in an Agile environment, with sprints lasting 2 weeks and providing demos at Scrum Meetings.

Demand Analytics Intern

May 2019 - Aug. 2019

Rogers Communications

Toronto, ON

- Innovated a new visual representation tool quantifying the call drivers of customers to be used in developing predictive models for future demand with the goal of reducing internal costs by **6-figures**.
- Produced dynamic data models using data visualization tools including Excel, PowerBi and Tableau.
- Data mining from Hadoop servers using SAS and SQL to organize Big Data.

PROJECTS

St. Mary Hospital Volunteer Network | *AWS, React, Django, JS, Python*

Sept. 2021 – Present

- Working in a team of four to develop an application allowing physicians at St.Mary's Hospital to connect their patients with active volunteers to provide additional assistance.
- Completed the initial development of the application, and currently beta testing with real users.

Recycling Pioneers: McGill Smart Waste Platform | *Arduino, React, Firebase, JS, C++*

June 2020 – Present

- Joined the student startup as a Software Engineer intern in Summer 2020. Working closely with McGill Buildings and Grounds to develop a platform to improve the current 27% waste diversion rate to a minimum of 50% through accurate data collecting and generating educational content for the community.
- Programmed micro-controllers to receive sensor data regarding fill level and weight readings. Data transmitted to a Firebase database, and insights are dynamically populated on the dashboard of a React website visible across waste bins on campus.
- Raised over \$10 000 in funding, and project recognized by University Advancement at McGill with published articles.

McGill BioDesign: Glucose Levels Transmitter | *Android Studio, Firebase, Java*

Sept. 2019 – Aug. 2020

- Designed a transmitter for glucose monitors worn by diabetic children in order to send patient data to medical professionals in realtime for constant surveillance.
- Developed an Android app in Java using Android Studio, with data stored in a Firebase Realtime Database.
- Final product was to be used by Type I diabetic children at Camp Carowanis starting in Summer 2020: pushed due to COVID-19.