Daniel

✉ suh26@mcmaster.ca
☎ (365) 883-4386
📍 Toronto, Ontario
in

Fourth-year student with a solid background in data management and cloud applications, and two years of experience in full-stack development and data analysis. I have developed and deployed 3+ data driven web applications and managed corresponding database and have closed five deals

Experience & Project

Microgreen Solar Corp - Software developer

May 2021 - Sep 2021, May 2022 - Sep 2022

- Implemented IoT Core Module to streamline data conversion from solar panels, effectively displaying power input and output to users via MQTT protocol.
- Successfully deployed web application using AWS lambda, using a serverless architecture and reduce hosting cost by half
- Analyze and document energy consumption patterns, and develop a backup plan in case of power outage

Hspector - Product Manager

May 2021 - April 2022

- Engineered a comprehensive web application using Flask and Azure SQL database with the goal to aid businesses in legal compliance management
- Deployed the application using Docker and hosted on ECS
- The application offered services such as filing for new company, modifications in directorship, changes in share voters, and provision of various legal document templates with eSignature capabilities.
- Successfully closed five deals and facilitated the incorporation of 5 LLCs, with over 8 document templates actively utilized, demonstrating great communication and sales skills
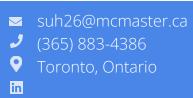
LawChat - Personal Project (ongoing)

- Using Falcon-40b as base model and fine tune using HK specific law, publicly listed companies' announcement and case judgment to answer listing related questions
- Implementing Retrieval-augmented generation model to prevent hallucinations, and provide in text citation or link to provide easy verification

School Project

Distributed hash table (Distributed system)

- Implement distributed hash table using Java and the Akka actor model framework, enabling dynamic item repartitioning, efficient node joining and leaving processes, and robust replication mechanisms. And a lock quorum system to guarantee data consistency across the network

Skills

- Python,Java,C,Docker, SQL
- Flask, Django
- Apache Spark, Hadoop
- Bash, Git/GitHub, PyTorch
- AWS(ECS, EC2, IoT Core, Comprehend, Lambda, IAM)

EDUCATION

Bachelor of Science, Mathematics & Computer Science

McMaster University

📅 Sep 2020 - Apr 2024

📍 Hamilton, Canada

Exchange

Trento University

📅 Feb 2023 - July 2023

📍 Trento, Italy

Hobby/Interest

I'm really into working out and jiu jitsu, because I believe I have to be physically fit to optimize my productivity for everything else in my life