

# Daniel Su

Ambitious 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 combine technical proficiency with strong communication skills, ensuring effective teamwork and project success.

## 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.com - Founder

May 2021 - Feb 2022

- Engineered a comprehensive web application using Flask 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 companies, modifications in directorship, changes in share voters, and provision of various legal document templates with eSignature capabilities.
- Successfully facilitated the incorporation of 5 LLCs, with over 8 document templates actively utilized

### LawChat

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

## School Project

### Distributed hash table

- 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

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🌐

## Skills

- Python, Java, C, Docker, SQL
- Transformer, BERT
- Bash, Git/GitHub, PyTorch
- AWS(ECS, EC2, IoT Core, Comprehend, Lambda, S3)

## EDUCATION

### Bachelor of Science, Mathematics & Computer Science

McMaster University

📅 Sep 2020 - Apr 2024

📍 Hamilton, Ontario

### Exchange

Trento University

📅 Feb 2023 - July 2023

📍 Trento, Italy

## LANGUAGES

- English - Fluent
- Mandarin - Fluent
- Cantonese - Fluent
- Spanish - intermediate

## 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