

EDUCATION

University of Waterloo

2021–Current

Bachelor of Applied Science, **Systems Design Engineering**

- Activities: UW Blueprint – Project Developer, Greenhouse Social Impact Incubator

WORK EXPERIENCE

Software Developer Intern

May 2023 – Aug 2023

The Weather Network – Generative AI Team, Oakville, ON

- Founding engineer on team building an AI weather assistant for Canada's top weather provider
- Engineered a location detection feature leveraging Named Entity Recognition (NER) to identify and process location-based prompts, improving user experience and response accuracy
- Implemented retrieval and use of historical weather data by the **Large Language Model (LLM)**
- Built out a testing suite to evaluate LLM responses and pre processing, improving response quality
- Contributed to Web team with features like the navigation bar using **Typescript, React & Next.js**
- Wrote Cypress E2E and Jest unit tests for web components and features
- Helped team reduce token usage by **50–80%** by utilizing LLM agents with tools on **Langchain**

Data Engineering Intern

Sep 2022 – Dec 2022

Grantmatch, Toronto, ON

- Automated manual scraping of grants into internal database with Python & BeautifulSoup
- Deployed app on **AWS** using **Terraform**
- Implemented a text classification neural network on 4000 grants with **PyTorch**

Full Stack Developer Intern

Jan 2022 – Apr 2022

Intelliculture, Waterloo, ON

- Improved and scaled usability and functionality of farm management software product
- Built **Node.js** and **Django** scripts to collect vehicle data, used in 18,000+ customer reports
- Awarded Waterloo's \$1500 Co-op Problem Prize for analysis of a problem strategic to Intelliculture

PROJECTS

Condensed.news – News Summary Web App

[Try it Out](#)

 [View the Code](#)

[Blog Post](#)

- Created a web app which uses AI to summarize the latest global news, on an hourly basis
- Built using **Flask** (Python), deployed on **Heroku** with **PostgreSQL** database
- Utilized **REST APIs** – HuggingFace for summarizer, NewsAPI and newspaper3k to query articles

Sohailsayed.com – Windows XP Recreated in React

[Try it Out](#)

 [View the Code](#)

- Recreated Windows XP with **React**, **Typescript** and **Next.js** for my personal website

TECHNICAL SKILLS

Languages:

Python

Javascript

Typescript

C++

Frameworks:

Django

Flask

Node.js

React.js

Next.js

Misc:

Langchain

SQL

Pytorch

PostgreSQL

Git

AWS

Bash