

# SOHAIL SAYED | PORTFOLIO: [SOHAILSAYED.COM](https://sohailsayed.com)

[GitHub](#) | [LinkedIn](#) | [sohail.sayed@uwaterloo.ca](mailto:sohail.sayed@uwaterloo.ca)

## EDUCATION

**University of Waterloo** Bachelor of Applied Science, **Systems Design Engineering** 2021–2026

**Project Developer – Blueprint Club, University of Waterloo Chapter** May 2023 – Aug 2023

- Developed web application to handle employee operations at the Algoma Children's Aid Society, using **Typescript, React, Python** and **PostgreSQL** stack, enabling faster more organized operations

## WORK EXPERIENCE

**Software Developer Intern** [Article About Project](#) May 2023 – Aug 2023

*The Weather Network – Generative AI Team, Oakville, ON*

- One of five founding engineers on Generative AI team building a Large Language Model (LLM) powered weather assistant for **40 million users** of Canada's top weather app and website, utilizing **Python (Django)** and **Langchain** tech stack
- Designed first iteration of several key features, including handling of historical weather data and location-based prompts, leveraging Named Entity Recognition (NER)
- Helped reduce token cost by **50–80%** by utilizing **Langchain agents**
- Designed frontend web components using **Typescript, React & Next.js**, writing **Cypress** E2E and **Jest** unit tests to ensure code robustness

**Data Engineering Intern** Sep 2022 – Dec 2022

*Grantmatch, Toronto, ON*

- Fine-tuned the BERT language model on **HuggingFace** and implemented a text classification neural network with **Pytorch** to categorise grants into their industries
- Utilised Python (BeautifulSoup and Selenium) to collect and build a **PostgreSQL** database of over 4000 Canadian grants for internal use, automating manual grant collection process
- Efficiently deployed a suite of Python applications as **AWS Lambda** functions using **Terraform**

**Full Stack Developer Intern** Jan 2022 – Apr 2022

*Intelliculture, Waterloo, ON*

- Developed farm management software for customers ranging from family farms to Fortune 500 agricultural companies, using **Node.js, Django, React** and **FaunaDB** stack
- Leveraged Geotab and Clearpath APIs to integrate vital farm vehicle data, including GPS breadcrumbs, odometer readings, and engine hours, into the equipment fleet dashboard, crop schedule portal, and daily farm 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), **PostgreSQL** and **HuggingFace** API stack

**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/Frameworks:** Python, Javascript, Typescript, C++, Django, Flask, Node.js, React.js, Next.js

**Misc:** Langchain, SQL, Pytorch, PostgreSQL, Git, AWS, Bash