

ANJALI GUPTA

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SKILLS

Languages: TypeScript, JavaScript, Python, Dart, SQL, GraphQL, C++, HTML/CSS, SASS

Libraries: Node, React, Redux, Apollo, Express, TensorFlow, NumPy, OpenCV, Keras

Tools: Firebase, Postman, Flutter, Git, PostgreSQL, Linux

EXPERIENCE

Full-Stack Developer – WSIB Innovation Lab

Sep 2021 – Present

- Collaborated to create Proof of Technology for **4 projects and 10+ features** to be presented to CTO of WSIB
- Constructed client facing QR code scanner and PDF reader for a novel employee vaccine verification system using **React**, improving efficiency of document uploads
- Implemented **RESTful APIs** served with Flask to store the vaccine status of employees via **CRUD operations**, establishing a robust framework that currently stores data for **3000+ employees at WSIB**
- Pioneered **mobile design system** for future WSIB mobile applications using Flutter and Firebase, **reducing development time** on new projects
- Built **reusable components** for design system, including push notifications, messaging features, and OAuth on both iOS and Android platforms

Founder – Purple Purlers

Oct 2018 – Present

- Founded charity that donates hand-knitted blankets to 10+ animal shelters across Ontario
- Oversaw a 15-person team to co-ordinate social media marketing, host fundraising events, and interact with volunteers, leading to the creation of **7+ satellite charities**
- Acquired **1,200+ knitted blankets** and **\$10,000+** to date from donors of all demographics

PROJECTS

Film Finder [TypeScript](#) | [GraphQL](#) | [React](#) | [Redux](#) | [Node](#) | [Express](#) | [Apollo](#) | [Firebase](#) 🌐

- Built **GraphQL server** to organize data from OMDB API via Node and Express, increasing aggregation efficiency
- Queried GraphQL server and **cached results** to display on React using Apollo, reducing query costs
- **Maintained states** for cross-component interaction via Redux, removing heavily embedded React components

Sign Language Detector [Python](#) | [TensorFlow](#) | [NumPy](#) | [OpenCV](#) | [Keras](#) 🌐

- Created an application that prints the Sign Language letter corresponding to a user's hand gesture
- Trained and tested data by implementing a **CNN** using TensorFlow, resulting in an **85% detection accuracy**
- Currently being used by a discord community of **25+ users** as an educational tool to learn American Sign Language

Sorting Visualizer [Python](#) | [Pygame](#) 🌐

- Designed UI to display bars using Pygame, allowing for real time display of **sorting algorithms** in both ascending and descending order
- Built generators to automate animations of partially sorted lists, **improving readability of code**

EDUCATION

University of Waterloo – Candidate for BCS: Computer Science

Sep 2020 - Apr 2025

Relevant Courses: Object Oriented Programming (**C++**), Data Structures and Algorithms (**C**)

GPA: 3.9

INTERESTS

Blogging/Video Production, Table Tennis, Dancing, Learning Foreign Languages, and Eating Sushi