

# ANJALI GUPTA

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## EDUCATION

**University of Waterloo** – Candidate for BCS: Computer Science

Sep 2020 - Apr 2025

Relevant Courses: Object Oriented Programming, Data Structures and Algorithms

GPA: 3.8

## SKILLS

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

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

**Tools:** Firebase, Postman, Flutter, Git, PostgreSQL, MongoDB, Linux, Jira (Agile), BitBucket, AppDynamics

## EXPERIENCE

**Software Engineer Intern** – PointClickCare

May 2022 – Present

- Developed functionality for users to take pictures and attach images to conversations in a cross-platform mobile application via **Flutter**, increasing customer retention rate by 56%
- Created native methods in **Swift** and **Kotlin** to send image data to the **Twilio SDK**, allowing the transmission of 7,000+ images monthly
- Formulated engineering recommendations on best practices for adding various media sources to a message while also abiding by HIPAA guidelines, improving development velocity from 61 to 78 points
- Expanded the integration of **AppDynamics** to monitor application crashes and network requests, shortening bug discovery time by 27%
- Automated test cases to ensure validity of push notifications, connection error headers, and contact tiles via **integration testing** and **golden testing**, removing 16% of manual testing load

**Software Developer** – University of Waterloo

Jan 2022 – Jun 2022

- Led the formation of end-to-end features to provide user surveys for **4000+ participants** using **MongoDB**, **Express.js**, **React**, and **Node.js**
- Established secure password recovery flow via reset links using **JWT**, increasing user retention rate by 17%
- Enabled **MongoDB** foreign keys to create relations between relevant schemas, reducing memory usage by 2GB
- Created asynchronous queue via **Node.js** to send update emails biweekly, improving user participation by 55%

**Full-Stack Developer Intern** – WSIB Innovation Lab

Sep 2021 – Dec 2021

- Constructed client facing QR code scanner and PDF reader for a novel employee vaccine verification system using **React**, reducing verification time by 33%
- Implemented **REST APIs** served with **Flask** to store the vaccine status of employees via CRUD operations, establishing a robust framework that holds data for **3,000+ employees** at WSIB
- Pioneered a design system for mobile application development in future WSIB products using **Flutter** and **Firebase**, reducing development time on new projects by 25%

## PROJECTS

**Sign Language Detector** Python | TensorFlow | NumPy | OpenCV | Keras 🌐

- Created an educational application for **25+ users** that prints sign language letters corresponding to hand gestures
- Trained machine learning models by implementing a **CNN** using **TensorFlow**, resulting in 85% detection accuracy

**Film Finder** TypeScript | GraphQL | React | Redux | Node | Express | Apollo | Firebase 🌐 🌐

- Filtered API results into **GraphQL** server and cached film search queries using Apollo to display on React
- Maintained states for cross-component interaction via Redux, removing heavily embedded React components

## ADDITIONAL INFORMATION

Interests: Blogging, Video Editing, Table Tennis, Dancing, Learning Foreign Languages, and Eating Sushi

Professional Affiliations: **Grace Hopper** (2021 Attendee), **Women in Computer Science Club** (Member)