

# ANSH CHATURVEDI

[anshchaturvedi.me](https://anshchaturvedi.me)

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## Education

### University of Waterloo

September 2021 – June 2026

Honours Computer Science (BCS) – 82.8% (term average)

Waterloo, Ontario

Awards: President's Scholarship of Distinction

## Relevant Coursework

- Designing Functional Programs (CS 135)
- Elementary Algorithm Design (CS 136)
- Data Abstraction (CS 136)
- Object-Oriented Programming (Harvard CS50)
- Artificial Intelligence Fundamentals (Harvard CS50AI)
- Full-Stack Web Development (Udemy)

## Projects

### neverForgetter | JavaScript, React.js, MongoDB

September 2021

- Constructed a web application using the MERN stack to keep track of to-do list items.
- Utilized Node.js, the Express.js web framework, React.js components to dynamically render to-do items and make the applications scalable, and the Random-Data-API for development and testing.
- Used Mongoose to connect the backend to a MongoDB Atlas instance.

### Traffic Sign Classifier | Python, Keras (Tensorflow)

July 2021

- Designed a ML-based traffic sign classifier using a convolutional neural network with multiple convolutional and pooling layers, trained on the GTSRB (German Traffic Sign Recognition Benchmark) dataset.
- Created using Tensorflow and its high-level API Keras, with an overall accuracy of more than 95%.

### Premdictor | Python (NumPy, pandas, Flask), Jinja,

January 2021

- Developed a Premier League standings predictor using statistical models developed with NumPy and Pandas.
- Designed and implemented a front-end UI using HTML, CSS (Bootstrap) and the Flask web framework.
- Used SQLite3 as our local database storage solution and Jinja as the primary templating engine.
- My team's official entry into Hack the North 2020++, Canada's largest hackathon hosted by the University of Waterloo.

### myFinance | Python, Flask, Jinja, SQLite3

August 2020

- Created a stock market trading platform where users could sign up, view their holdings, lookup and trade stocks.
- Used the IEX Cloud's Finance API to fetch current stock prices, open/close prices, high/low prices, and financial news.
- Used SQLite3 to securely store usernames, hashed passwords, portfolios, and the Jinja templating engine to dynamically render informative tables and charts for each user.

## Work Experience

### BLS International (Government of India)

March 2021 – June 2021

Submissions Officer

Brampton, Ontario

- Led a team of 10+ members to process 500+ visa/passport applications daily on behalf of the Government of India.
- Ensured application processing ran accurately and smoothly, reducing incorrectly processed applications by 20%.
- Used technologies like Microsoft Office, Oracle database services and in-house internal management software to monitor day-to-day business operations and handle private customer information with care.

### PPL Group Ltd.

June 2020 – Sept 2020

Lifeguard and Swim Instructor

Mississauga, Ontario

- Managed an influx of over 100 patrons per day, while implementing and maintaining necessary COVID health protocols.
- Organized and ran free classes for two months, teaching over 50 children important swimming and first-aid skills.
- Oversaw and participated in the annual company fundraiser, raising more than \$200 for the "Swim to Survive" initiative.

## Technical Skills

**Languages/Frameworks:** Python, C/C++ HTML/CSS, JavaScript (React.js), RESTful API's, SQL, TensorFlow  
**Developer Tools:** VS Code, Git, Firebase, Heroku, MongoDB, Serverless, Chrome Developer Tools