

ANSH CHATURVEDI

anshchaturvedi.me

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Education

University of Waterloo

September 2021 – June 2026

Candidate for Bachelors of 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)

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

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 🐙 (Hack the North 2020++) | 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.

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.