

[Portfolio](#)**Skills**

- Java, Python, JavaScript, HTML, CSS, React, NodeJS, SQL, C/C++, C#, Apache Spark.
- Leadership, Lifelong Learning, Curiosity.

Education

BSc Honours in Computer Science	York University	Sep 2017 – Apr 2023
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- Relevant Courses: **Big Data (A+)**, **Design & Analysis of Algorithms (A+)**, **Software Design (A)**, **Operating Systems (A+)**. **Computer Protocols (A+)**, **Computer Organization (A)**

Work Experience

Teaching Assistant	York University	Jan 2022 – Present
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- Lead Teaching Assistant in labs for EECS 2021 (**Computer Organization**) and EECS 3201 (**Digital Logic Design**) for 100+ Students.
- Assisted students in understanding **Computer Science** concepts, including **Hardware**, and **Software**.
- Delivered midterm and exam review tutorials.

Software Engineer Intern	Ontario Power Generation	Jan 2021 – Aug 2021
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- Supported software engineering projects in an **Agile** work environment.
- Used **JavaScript**, **HTML**, and **CSS** to develop the plant's wide dashboard's Front-end and **C#** for the Back-end.
- Used **MySQL** to create tables, views, queries, and stored procedures for the company's database.
- Worked on the plant's approvals system to **automate** the overtime requests using **React** and **NodeJS**, **saving 1 hour of time weekly** for each section manager.
- Created tools to **automate** report generation process and to automatically fill documents from databases, **saving 24 hours a quarter**.

Projects<https://github.com/Ali-Adam7/>**[Face Detector](#)**

- A **React** application that uses the Clarifai **Machine Learning** API to detect faces and guess the name of the person
- Implemented a log in and register feature, to create accounts and keep track of how many faces detected per user with **NodeJS** and **Express** server deployed on Heroku
- Incorporated a **PostgreSQL** database into the project to store the users and face detection counts.

[IPChangeNotify](#)

This application was made so that a user without a static external IP address will always know the current IP of a network so they could access their database or server from anywhere.

- A background process using **NodeJS** that routinely checks the external IP address of the computer and sends an email via **Node-mailer** to the user with the new IP address if it changes.

[Line Coder](#)

This calculator was created to help check calculations for the network's communication course, and to get a deeper algorithmic understanding for line coding.

- Designed a line coder to plot the **OSI's** physical layer output using different schemes (**NRZ-L/I**, **RZ**, **Bipolar**, and **Manchester**).