

# SYED AHMED

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## EDUCATION

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### University of Guelph

Honours Bachelor in Software Engineering (Co-op), GPA: 84%  
Coursework includes: Data Structures, Algorithms, Discrete Math

Guelph, ON, Canada  
September 2020 - April 2025

## SKILLS

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**Languages:** Python, JavaScript, C, Java  
**Frameworks:** React, Bootstrap  
**Tools:** Version Control (Git / GitHub / GitLab), Heroku, Netlify

## EXPERIENCE

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### Undergraduate Research Assistant

University of Guelph

Guelph, ON, Canada  
May 2021 - August 2021

- Implemented CV (computer vision) techniques such as colour spaces and clustering to detect objects within an image by developing **Python** scripts using libraries including OpenCV
- Calculated Precision, Recall, and F1 scores of images by creating **Python** scripts to compare ground truth to predicted images and return their confusion matrix
- Wrote documentation describing how to train a CV model using a custom dataset, from plain images to annotation to training using the **Python** CV library Detectron2

## PROJECTS

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### Sorting Algorithm Visualizer

JavaScript, React

View [↗](#)

- Implemented **2** sorting algorithms, quick sort and bubble sort to build an algorithm visualizer
- Developed using **React** and a **JavaScript** library called p5.js to visualize data

### COVID-19 Cases Web Scraper

Python

View [↗](#)

- Created program which responds to questions asked by a user with COVID-19 cases information by implementing voice recognition, web scraping, and RegEx **Python** libraries
- Fetched web scraped **JSON** data from external ParseHub API

### Chrome Timer Extension

JavaScript, jQuery

View [↗](#)

- Created a Timer extension for the Google Chrome web browser which allows a user to set a timer
- Achieved **5+** installations by users on Chrome
- Built using **JavaScript** and **jQuery**

### To-Do List

JavaScript, React

View [↗](#)

- Developed a to-do list application using **React** in which a user can add or remove items from their list, along with marking them as complete
- Implemented jsonplaceholder to make requests to a **REST API** to simulate database manipulation and grabbing preset items from a database.

## EXTRACURRICULARS

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### Member

University of Guelph Coding Club

Guelph, ON, Canada  
September 2020 - Present

- Attending talks related to software engineering technologies and practices
- Participating in hackathons and coding challenges