# SHRIRAM HOLLA

2B COMPUTER SCIENCE

sholla@uwaterloo.ca hollaat.me (647)-951-1574 shriramholla shriramholla

## SKILLS

**LANGUAGES:** Python, C++, C, JavaScript, Bash, HTML, CSS, R, SQL, Octave
**TECHNOLOGIES:** Tensorflow, Pandas, Numpy, Scikit-learn, Matplotlib, Spark, OpenCV, Pytorch, Flask, Django, AWS, Google Cloud, Azure, React.js, Node.js, Express.js
**TECHNICAL:** Data Structures, Algorithms, OOP, Design Patterns, Machine Learning, Image Processing, Data Analysis, Web Development, RESTful APIs

## EXPERIENCE

**Freelance Software Developer** April 2020 - Present

- Worked closely with clients to collect specifications for commercial product development.
- Implemented Machine Learning algorithms like Logistic Regression, K Nearest Neighbours along with computer vision algorithms using Scikit-learn, OpenCV to automate inventory management, increasing efficiency by 300%.
- Integrated a backend server with a web client using React.js to automate end-to-end workflow process.

## PROJECTS

**Connec-ted | Node.js, Express.js, Twilio** March 2020

- Developed a SMS-enabled chatbot that generates directions, news in the absence of an internet connection.
- Integrated Twilio's API, Google Maps and News to obtain data, which is triggered by webhooks received on a backend Node.js server.
- Winner of the People's Choice Award at WinHacks, University of Windsor with 400+ participants

**Ardor | Python, OpenCV, Django, Google Cloud** February 2020

- Created a web application using Django that dynamically generates media recommendations based on facial emotions captured in real time and interpreted using sentiment analysis.
- Leveraged OpenCV for image/video processing and Google Cloud's Vision API to obtain emotion data.
- Placed in the Top 10 out of 500+ participants and 100+ teams at Hack The Valley, University of Toronto.

**Convey | HTML, CSS, JavaScript, jQuery** January 2020

- Built a web application for the physically challenged enabling them to consume information from mediums which they otherwise may not be able to.
- Used the WebSpeech API to convert speech to sign language for the deaf, text to speech for the blind.

**Safe Crowds | Tensorflow, Scikit-learn, Pandas, OpenCV, Matplotlib** April 2020

- Developed a program that checks social distancing by identifying persons using the object detection model, YOLOv3.
- Analysed violations to form hotspots by creating "Social Fences", providing real-time graphs using Matplotlib.
- Used Machine Learning algorithms like K-Means Clustering using Pandas, Scikit-learn to classify danger zones in public areas.

## ACHIEVEMENTS

**Certificate of Competency in Artificial Intelligence** · *NVIDIA Deep Learning Institute* December 2019

**President's Scholarship of Distinction** · *University of Waterloo* September 2019

## EDUCATION

**University of Waterloo** September 2019 - Present

Candidate for Bachelor's of Computer Science
Overall Average: 87.8% | Faculty Average: 89.4% | Dean's Honours List (x3)