

Raghav Saboo

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EDUCATION

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science, Faculty Average - 92.77%

Sep 2019 – Present

- **Scholarships & Awards:** Computer Science International Student Upper-Year Scholarships, President's Scholarship of Distinction, Upper-Year Term Distinction, Dean's Honours List.
- **Relevant Coursework:** Object-Oriented Software Development, Algorithms & Data Structures, Operating Systems, Numerical Computation, Combinatorics, Computer Organization & Design, Sequential Programming.

EXPERIENCE

HomeX

Sep 2021 – Present

Software Engineer

Toronto, ON

- Spearheaded project to restructure the in-house Geocoding Service to mitigate licensing costs.
- Integrated a Geocoding Model constructed using **Pelias Elasticsearch Servers** into the company infrastructure to **reduce API calls by over 70%** and **improved average query response times by 60%**.

University of Waterloo

May 2021 – Sep 2021

Undergraduate Research Assistant

Waterloo, ON

- Developed a platform to support non-linear/dynamic learning plans for video learning under **Prof. Jian Zhao**.
- Built a **REST API** using **NodeJS & MongoDB** to manage data pipelines, leveraging reusables patterns to expedite processing times.

Ford Motor Company of Canada

Jan 2021 – April 2021

System Software Stability & Performance Engineer

Oakville, ON

- Designed system to measure the performance of the infotainment system testing frameworks.
- Reduced daily testing times by **15%** by optimizing **load scheduling on each node** using the greedy paradigm.
- Implemented automated Python scripts to leverage test history data for generating key performance statistics.

PROJECTS

NoteSus | *CockroachDB, NodeJS, Google Cloud NLP, Deep API, Voiceflow*

- Built a note-taking tool that classifies notes using various filters using **Google Cloud's NLP API**.
- Compatible with **Google Home/Alexa** through **Voiceflow** to recite note summaries for active recall.
- Supports note-taking through **dictation** and **handwriting recognition** from images.

Arduor | *Python, OpenCV, Django, Google Cloud*

- Developed a computer vision powered web application to **generate media recommendations** based on **sentiment analysis** through a custom collaborative filtering model using **KNN**.
- Placed amongst the **Top 10** at **HackTheValley4**, University of Toronto with **500+** participants.
- Concept explored 1.5 years before **Spotify's** patent!

Connect-Ted | *NodeJS, Google Cloud, Twilio*

- Built a SMS-enabled bot to seamlessly supply directions/news headlines **without access to internet**.
- Integrated Twilio, Google Cloud & News API to process and relay information using Express servers.
- Won the **People's Choice Award** at **WinHacks 2020**, University of Windsor with **400+** participants.
- Featured on **MLH's** global livestream.

TECHNICAL SKILLS

Languages: Python, Javascript, C++, C, SQL, R, HTML, CSS3.

Tools: MySQL, Git, CockroachDB, MongoDB, Google Cloud, Azure, Jira.

Frameworks: Node.js, Docker, Django, Flask, AJAX, Material-UI, Bootstrap.

Libraries: Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib.