

# JISHAN SHARIF

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## SKILLS

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- Interested in backend development, systems design, algorithms and software engineering
- Worked with Python, Haskell, Java, C, C++, React, Bash, Git, Node, Ruby, NASM, RISC V

## EDUCATION

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### McMaster University

Sept '19 – Present

*Faculty of Engineering in Honours Computer Science (with Distinction)*

- Courses: Computer Science Practice and Experience, Introduction to Computational Thinking

## EXPERIENCE

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### Clienttable

Mississauga, ON

*Full Stack Software Engineer*

Sept – Dec '20

- Worked cross-team on model serving, versioning, runtime environments and deployment systems
- Published designs on model state machines/deployment orchestration across thousands of hosts
- Introduced dynamic request buffering mechanism to mitigate bursty, high-throughput traffic load

### Medsender

San Francisco, CA

*Software Engineering Intern*

May – Sept '20

- Led multiple design reviews for proposals outlining measures to improve barcode search relevance
- Authored query reformulation modules to improve system recall and click-through rate by 2.49%
- Leveraged sequence-to-sequence learning to generate alternative search suggestions for users

## PERSONAL PROJECTS

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### whitted-ray-tracer

[git.io/JtfBS](https://git.io/JtfBS)

- Generate virtual images by following a path from the light to the camera.
- Simulate effects such as caustics or reflection of light from other surfaces in the scene.

### stack-calc

[git.io/JvWBV](https://git.io/JvWBV)

- Built an interactive, stack-based postfix calculator allowing users to perform any math operation
- Supported arbitrarily nested, VM-like computations by using a stack for the computation engine

### weather-station

[git.io/JvWBO](https://git.io/JvWBO)

- Designed a program to report current and future weather forecast based on location
- Leveraged the OpenWeather REST API to provide weather data

### word-counter

[git.io/JvWB3](https://git.io/JvWB3)

- Built a command-line utility to report words in the order of frequency for a given file
- Used arrays and hash-maps to efficiently store and compute results for large files

### todo-list

[git.io/JvWBZ](https://git.io/JvWBZ)

- Authored a task-management application to show outstanding tasks, deadlines, and priorities

### lissajous

[git.io/JvWBG](https://git.io/JvWBG)

- Generated lissajous curves GIFs by stitching together several generated parametric curve plots

### universal-translator

- Authored a language translation module to efficiently translate text from one language to another
- Used dictionaries to translate individual words and phrases before stringing them together again

### checksummer

- Constructed a lightweight data integrity tool to verify if the file contents are uncorrupted

## EXTRA CURRICULARS

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### **Al Noor Training Center**

*Dubai, UAE*

- Volunteered at fundraisers to help provide services for children with special needs

### **St. Mary's Catholic High**

*Dubai, UAE*

- Actively volunteered for community service helping special need students

### **Personal Tutor**

*Dubai, UAE*

- Taught GCE Advanced Physics and Applied Mathematics to multiple students