Jishan Sharif

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Skills

- 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

McMaster University Sept '19 – Present
Faculty of Engineering in Honours Computer Science (with Distinction)

Experience

Clienttable *Missisuagua, 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

- Built key features of the healthcare app such as document editing, e-signatures, HIPPA compliance and more
- Added the ability to save documents and share data throughout the app meeting HIPPA standards
- Led the engineering effort behind document editing and e-signatures which is now a core-feature of the application
- Improved the UI flow by adding support for filter and search over documents and resetting user passwords
- Expanded the testing suite of Medsender to have an over 95% code coverage

Personal Projects

whitted-ray-tracer *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/JvWBY*

- 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*

- 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*

- 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*

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

lissajous *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