

Saksham Aggarwal

Computer Engineering | 647-896-3920 | github.com/Aphsai

Experience

Software Architect - Shoplogix

May 2018 - Aug. 2018

- Created interactive visualizations of factory machine information using React
- Implemented conversion of basic authentication credentials to cookies allowing for compatibility with React Native WebViews
- Optimized core product by revamping libraries and streamlining codebase

Web Scraper - iRestify

Sept. 2016 - Jun. 2017

- Used Java and Selenium to efficiently extract information from databases
- Implemented scripts to clean and compose data into desired format

Projects

Thea Interpreter

Go

- An interpreter written from scratch for a self-designed language called Thea
- C-like syntax with variable bindings, arithmetic expressions and support of first-class and higher-order functions

Grammar Bot

Python/TensorFlow

- Automatically adds punctuation and spaces to input text
- An LSTM network was trained using individual characters as input and an output vector consisting of extracted punctuation

Chip8 Emulator

C++

- Emulates the Chip8 gaming console on a more modern platform using SDL
- Interprets opcodes and simulates registers to closely mirror original console

Skills

Proficient: Java/C++/Python/Javascript/React/Bash/HTML/CSS

Familiar: Node.js/React Native/Go/TensorFlow/LaTeX/Linux

Education

Bachelor of Applied Sciences - University of Waterloo (2022)

Hobbies

Rock Climbing/Card Magic/Reading (Currently: Mistborn)/Writing