VAMSI GAJJELA

EMAIL: vmgajjela@gmail.com **PHONE:** 416-523-0913
GITHUB: VamsiGajjela

EDUCATION

University of Toronto Sept. 2019 - Current
Computer Science (HBSc)
GPA: 3.34/4.0
Relevant Courses: Software Design, Software Tools and Systems Programming, Data Structures and Analysis, Computer Organization

SKILLS

LANGUAGES: Python, Java, C, SQL, HTML, CSS
TECHNOLOGIES: Django, PyTorch, Git

PROJECTS

Transit System Program — Oct. 2020 - Nov. 2020

- Wrote a java based program that mimics the functionality of common city transit systems
- Lead a team of four using scrum methodology
- Simulates and generates various transit events
- Allows users to create custom transit events using a GUI

Sentiment Analysis — May 2020

- Program to analyze positive and negative sentiment in a body of text
- Trained on data from a variety of sources including IMDb and Amazon reviews
- Used a linear support vector machine (SVM)

File Compression/Decompression — Mar. 2020 - Apr. 2020

- Software that performs lossless compression and decompression of files
- Utilizes Huffman trees to map symbols to codes according to their frequencies
- Decompression is achieved by traversing the path on the tree corresponding to mapped code
- Works on a variety of file types including .txt, .mp3, .wav, .jpg, and .bmp files

URL shortener — June 2019 - July 2019

- Designed and created a URL shortener using Django, and SQLite
- Built a simple user interface HTML and CSS for frontend
- Handled business logic in the backend using Python
- Served users by deploying live version of the application onto Heroku

Mario Kart Remastered — Mar. 2018 - June 2018

- Worked effectively in a three person team to design, plan, and create a video game
- Utilized the PyGame module to handle user input and render artwork onto the screen
- Implemented local multiplayer functionality and a high score tracker
- Created enemy players to act as obstacles for users

Arduino MP3 — Dec. 2017 - Jan. 2018

- Created an MP3 player using the Arduino ATmega microcontroller
- Planned and worked efficiently with another teammate to complete this project before our deadline
- Utilizes LEDs and a LCD display to indicate program status to user and a Piezo buzzer to output audio
- Worked with a 830 Tie-Point breadboard, 300 ohm resistors, buttons, jumper wires, and an alphanumeric LCD screen along with LEDS

ACTIVITIES

Karate, Swimming, Soccer