Sunny Nagam

(587) 703-5579 | ✉ sunnynagam1@gmail.com | 🏠 sunnynagam.com | sunnynagam

Skills

Languages: Python · Java · Node.js · Javascript · HTML5 · SQL · C++ · C#
Tools: GitHub · Android Studio · Tensorflow/Keras · Unity3D · Web APIs

Education

University Of Calgary   **Sept 2016 - May 2021 (Expected)**
B.S. in Software Engineering   **GPA: 3.4**

Experience

Hotchkiss Brain Institute   **Calgary, Canada**
Software Engineer (Machine Learning) Intern   **May 2018 - Present**
- Use Python and Tensorflow/Keras and train models on a cluster
- Construct Convolutional Neural Network models to detect multiple sclerosis in MRI scans of the brain
- Improved model accuracy by 15%+ by implementing new input format and training process
- Use Matplotlib for a simple UI program and processing results

Computer Science Club   **Calgary, Canada**
Co-Founder and Co-Manager   **Sept 2015 - Jun 2016**
- Utilized leadership and team working skills to assist in development of games and building of arcade machine
- Taught and instructed club members data structures and algorithms in Java
- Supervised and helped organize club schedule and planned events

Projects

Gravity Dash   **Unity/C# Mobile Game**
- Unity and C# based game developed for iOS and Android.
- Custom physics programmed in C#.

3D Pool   **Java 3D Desktop Game**
- Creates a 3D playable pool game with camera control and 3D modelling created done with linear algebra.
- Utilized linear algebra to create physics engine and collision system.

PantsOrShorts   **Java Android App**
- Android studio application using Open Weather API to tell user if they should wear pants or shorts.
- Used weather and learning user threshold to notify user of what to wear.

Joke Tweet Bot   **Python, Twitter/Reddit API Web Bot**
- Python script which integrates Twitter and Reddit APIs to scrape for jokes and repost on Twitter.
- Uses OAuth 2.0 authorization framework.

BMO bot   **Discord Javascript/Node.js Chat Bot**
- Runs on server using Node.js and uses Discord API in Javascript, deployed on Heroku.
- Processes user queries in chat to make web API calls and returns information.

Awards

Keith Yu Memorial Scholarship for Computer Studies

Western Canada High School Student in Technology Award

1st place in Synopsys Calgary Collegiate Programming Contest

2nd place in Alberta for Waterloo's Canada Computing Completion

3rd place in Arcurve Calgary Collegiate Programming Contest 2018

3rd place in University of Calgary's Competitive Programming club leaderboard