Sunny Nagam

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Skills

Languages: Python · Java · React · Javascript · HTML5 · SQL · C++ · C#
Tools: GitHub · Android Studio · Tensorflow/Keras · Unity3D · Rest APIs

Education

University Of Calgary   **Sept 2016 - May 2021**
B.S. in Software Engineering

Experience

Amazon   **Toronto, Canada**
Software Engineering Intern   **June 2020 - Sept 2020**
- Worked with Supply Chain Optimization Technologies Group
- Utilized Python, Tensorflow and various AWS technologies such as S3, Sagemaker, and DynamoDB
- Applied Machine Learning algorithms such as Neural Networks and Random Forests to detect vendor charge back anomalies and improve Amazon operations

Pason Energy   **Calgary, Canada**
Software Engineering Intern   **May 2019 - June 2020**
- Utilized Python to develop software used daily in hundreds of oil rigs around the world
- Utilized React and Git for development on new web-page
- Drastically increased speed of testing new features with new method of mocking hardware

Hotchkiss Brain Institute   **Calgary, Canada**
Machine Learning Intern   **May 2018 - May 2019**
- Utilized Python and Tensorflow/Keras and train models on a GPU 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

Projects

Gymnos AI Gym Camera   **Computer Vision AI Surveillance Camera**
- Uses machine learning model developed in Tensorflow to detect machine usage at the gym.
- Integrates with camera connected to Raspberry PI running a linux environment.

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