

Sunny Nagam

Software Engineer / Data Scientist

Experience

Amazon

Software Engineering Intern

Toronto
June 2020 – Sept 2020

- › Worked with Supply Chain Optimization Technologies Group.
- › Utilized Python, Tensorflow and various AWS technologies such as Sagemaker, S3, and DynamoDB.
- › Applied Machine Learning algorithms such as Neural Networks and Random Forests to detect vendor charge back anomalies and improve Amazon operations.

Pason

Software Engineering Intern

Calgary
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

Software Engineering Intern

Calgary
May 2018 – May 2019

- › Utilized Python and Tensorflow/Keras and train big data models on a GPU cluster.
- › Improved model accuracy by 15%+ by implementing novel new input format and training process.
- › Constructed Convolutional Neural Network models to detect multiple sclerosis in MRI scans of the brain.

Projects

Gymnos AI Gym Camera – Computer Vision ML Surveillance Camera

Uses machine learning model developed in Tensorflow to detect machine usage at the gym, integrates with camera connected to Raspberry PI running Linux.

Machine Learning Flappy Bird – ML application/simulation

Creates a playable desktop flappy bird game and simulates an AI learning to play the game along side you over generations through a genetic learning algorithm.

Drawing With Friends – NodeJS + Vue + MongoDB WebApp

Collaborative VueJS website with a live multi-user drawing board, user accounts, rooms, and messaging all stored in MongoDB.

Gravity Dash – Unity + C# Mobile Game

Mobile multi-level puzzle game where you guide a spaceship to safety by strategically placing gravity wells.

Behemoth – Android App

Firebase Authentication and Machine Learning Kit that detects the object of a picture taken and stores it in a Firebase User database, with google sign-in.

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🌐 sunnynagam.com

🐙 github.com/sunnynagam

Education

University of Calgary

2016 - 2021 — Calgary, AB

Bachelor of Science (B.S) in
Software Engineering

Skills

Languages

Python
Java
Javascript
C#

Tools

VueJS
NodeJS
Git
Tensorflow
Keras
Unity3D