

RUPINDER NAGRA

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EDUCATION

McMaster University

Hamilton, ON, 2018 - 2023

Bachelor of Software Engineering (Co-op) - **GPA: 3.75** - *Dean's Honour List*

Relevant Coursework: Data Structures & Algorithms, UNIX/Linux & Bash Scripting, FPGA Programming, Java Practice & Experience, Principles of C Programming, Linear Algebra, Discrete Mathematics

SOFTWARE PROJECTS

Movie Magnet

August 2019 - October 2019

<https://github.com/RupinderN/MovieMagnet>

- Web Application that uses movie API's to show IMDB ratings of movies currently in theatres
- Used **Node.js** with **Express.js** backend framework and **MongoDB** database to store user information
- Successfully integrated **Passport.js** library to securely authenticate user login and registration
- Developed functionality to send personalized emails of recommended movies using **Nodemailer** module
- Solved multiple **asynchronous** callbacks using Promises and `async/await` functions

Discover More

October 2019

<https://discover-more.herokuapp.com>

- Web Application that uses Spotify API to recommend related artists based on favourite artists on Spotify
- Makes authorized requests to the Spotify platform to access specific **API endpoints** based on user access permissions and **token requests**
- Uses **RESTful** architecture with Express.js backend to navigate site, additionally obtaining & modifying user information through various url requests

Convolutional Neural Network

November 2019

<https://github.com/RupinderN/Keras-TensorFlow-CNNs>

- Created Neural Network with '**CIFAR10**' dataset to accurately predict images from **1 of 10** unique classes
- Used **Keras** with **TensorFlow backend** to create Sequential model with Dropout, Pooling Layers, Batch Normalization, and RMSProp Optimizer
- Trained model with **50,000** training images to make predictions on **10,000** test images with a **81.52%** accuracy

International Terrorism Heatmap

August 2019

<https://github.com/RupinderN/InternationalTerrorismHeatmap>

- Jupyter Notebook that uses the **Global Terrorism Database** by **Start Consortium** to find relationships within data of over **180,000** attacks
- Used **Numpy** and **Matplotlib** libraries to manipulate and plot data of most common target types, attack types, frequent countries, and attacks per year
- Created an **interactive heatmap** showing areas with greater terrorism reports using **Folium** library

PROFESSIONAL EXPERIENCE

Waterline & Lyncar Inc.

July 2018 - August 2018

Warehouse Associate

- Performed **logistics management** using '**AutoDoc HSE**' streamline software and confirmed approximately **15-25 packages daily**, showing excellent efficiency skills
- Verified paperwork for delivery for companies such as FedEx, DHL, Purolator, Midland, Strt Away, Cardinal Cou, Apex and independent customers
- Successfully picked up orders from various warehouse locations to effectuate into shipping process

TECHNICAL SKILLS

- **Languages & Databases:** Python, Java, C, JavaScript, Git, MongoDB, MATLAB, Verilog, jQuery
- **Web Development:** React, Node.js, Express.js, Mongoose, EJS, Heroku, Bootstrap, HTML, CSS
- **Machine Learning Frameworks & Tools:** TensorFlow, Keras, Numpy, Pandas, Matplotlib