# RUPINDER NAGRA

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## EDUCATION

**McMaster University** <div align="right">Hamilton, ON, 2018 - 2022</div>

**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

**Quick Alert** <div align="right">January 2020 - February 2020</div>

*https://myquickalert.firebaseapp.com/*

- Web application that ensures emergency services know relevant information concerning you through SMS
- Developed an API backend using **Express.js** to create endpoints and stored users with **MongoDB** database
- Used **React.js** with **Material-UI** framework to create frontend and send requests to backend using **Axios**
- Designed method to send requests to personal API backend from SMS messages using **Twilio** API

**Movie Magnet** <div align="right">August 2019 - October 2019</div>

*https://movie-magnet.herokuapp.com/*

- Created a website 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** <div align="right">October 2019</div>

*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

**International Terrorism Heatmap** <div align="right">August 2019</div>

*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 **Pandas** and **Matplotlib** libraries to manipulate and plot data of most common target types, attack types, frequent countries, and attacks per year
- Created **interactive heatmaps** showing areas with greater terrorism reports using **Folium** library

## PROFESSIONAL EXPERIENCE

**Waterline & Lyncar Inc.** <div align="right">July 2018 - August 2018</div>

*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.js, Node.js, Express.js, Mongoose, EJS, Material-UI, Bootstrap, HTML5, CSS
- **Machine Learning Frameworks & Tools:** TensorFlow, Keras, Numpy, Pandas, Matplotlib