

MANAN PATEL

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EDUCATION

University of Toronto
B.S. Computer Science and Statistics

Toronto, ON
Sep 2013 - April 2019

EXPERIENCE

Environment & Climate Change Canada
Software Developer

Toronto, ON
May 2017 | August 2018

- Developed the official government iOS weather application using Swift from concept to completion. In a small agile team, I was heavily involved in developing several important features such as real-time weather notifications, GPS tracking, CoreData management, and CoreGraphics charting.
- Created XML decoders used to parse incoming raw weather station data from BC marine buoys to a digital format for the use of the general public real-time API.

University of Toronto
Research Assistant

Toronto, ON
Sept 2016 | Dec 2016

- Developed machine learning models of economic information about the countries of Peru and Canada to analyze the effect of trade policies on regional trade output.
- Created a database using Python based pre-processing techniques such as scraping and web-crawling. Then used R to formulate data into several different machine learning models like decision forests, PCA, and k-Means clustering to generate inferences about effective trade policies.

Academic Advising & Career Centre - University of Toronto
Web Developer

Toronto, ON
May 2015 | Aug 2016

- Created an iOS application that allows passers-by to view and interact with dynamic web content to aid market the workshops and seminars offered by the AA&CC. Written in Swift which was combined with a back-end API to feed the data.
- Helped develop an internal ticket system and a social media plan that increased visits to the site by 30% while decreasing the amount of time taken for social media posts.

SKILLS

Programming Languages:	Python, R, Swift, Java, MySQL, JavaScript, C
Frameworks / Tools:	HTML/CSS, NodeJS, React, XML, XCode, Android Studio, Git, Tableau

PROJECTS

GroSaver *Swift*

Designed an iOS food saver mobile application that reminds you when your food is expiring. Reads a picture of a users grocery receipt and after certain periods of time reminds them when the types of food they bought are expected to go bad. Written in Swift and uses the Tesseract optical character recognition framework to parse the data from the images and APNS to send notifications.

UiTube *JavaScript, HTML, CSS*

A chrome extension that changes the Youtube UI so that users can view the video, read comments, get the video info and related videos all in 1 page as well use night mode, auto disable annotations, etc.. Written using mainly JavaScript, HTML, and CSS. Uses the Youtube and Google API's.

Globo Gym *JavaScript, HTML, CSS*

Globo Gym is a scheduling application that allows users to book rooms in a gym, but can easily be extended to any type of facility. The Globo Gym platform uses Sockets to notify other users as soon as there is a new booking, so that no booking conflicts occur. Written using JavaScript and MongoDB.

INTERESTS

Mobile Development, Machine Learning, Data Science, Environmental Activism