Manan Patel

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Education

University of Toronto	Toronto, ON
Bachelors of Science - Computer Science and Statistical Machine Learning	Sep 2013 - May 2019

Experience

Environment & Climate Change Canada — Toronto, ON
Software Developer — May 2017 - Present

- Developed WeatherCAN, a native iOS weather application from concept to completion within 12 months in a small agile team.
- Created and maintained several features such as real-time GPS based notifications, CoreData management, building out UIKit components, and CoreGraphics charting.
- Created Java based product generators that create weather data output for the use of the Canadian public. Data is produced and used in real-time operations across all national media and social outlets (such as CTV, Cp24, Global News, etc.) to disseminate weather information to Canadians.
- Created XML decoders to parse incoming raw weather station data from weather stations, marine buoys, and radar sources to a digital format for the use of the general public real-time API.

University of Toronto — Toronto, ON
Research Assistant — 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 databases using Python and R based pre-processing techniques which were used to formulate and train machine learning models to generate inferences about efficient trade policies.

Academic Advising & Career Centre - University of Toronto — Toronto, ON
Web Developer — May 2015 - Aug 2016

- Created iOS applications that allows UTSC students to view and interact with dynamic web content promoting the groups and clubs, events, and services offered by the AA&CC and UTSC.
- Helped develop an internal ticket system and a social media plan that increased traffic to the site by 30% while decreasing the amount of time taken for each social media post.

Skills

Programming Languages:	Swift, Java, Python, JavaScript, R, Objective-C, Kotlin, React
Tools:	XCode, Android Studio, Git, Jenkins, Firebase, Docker, Sketch
Databases:	CoreData, PostgreSQL, MongoDB

Projects

GroSaver *Swift*
Creating an iOS food saver mobile application that uses OCR to read receipts and 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 CoreML to parse the data from the images and APNS to send notifications. Currently in the process of launching the product through a student incubator at UofT.

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 JavaScipt, HTML, and CSS. Uses the Youtube and Google API's.