

# Colin Marsch

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## EDUCATION

### University of Waterloo

CANDIDATE FOR BACHELOR OF  
HONOURS COMPUTER SCIENCE -  
ARTIFICIAL INTELLIGENCE OPTION  
2016 - Present | Waterloo, ON  
Cum. Average To Date: 87%

## SKILLS

### Languages

Java • JavaScript • Swift  
Python • C++ • C  
HTML • CSS • SQL

### Technologies and Tools

Spring Framework • Unix  
Flask • Git • React.js • Node.js  
scikit-learn • AWS • OData  
Test Driven Development

## INVOLVEMENT

### Microsoft Student Partner

September 2017 - June 2018

- Worked with student partners across Canada to plan and deliver events such as tech workshops and hackathons
- Presented in two [Node.js](#) chat bot workshops

## AWARDS

### Competition

Code to Win 2018 - Finalist

MSFT Hacks 2017 - 3rd Place

Equithon 2017 - Category Winner

### Academic

Dean's Honour List  
Winter 2017 and 2018 Terms  
University of Waterloo

## EXPERIENCE

### Mobile Developer | SAP CANADA

May - August 2018 | Waterloo, ON

- Worked on the [SAP Android SDK](#) team to develop sample apps for use by early access customers and in product pitches
- Developed native [Android](#) apps using [Java](#), including features such as offline data storage and multiple users on one device
- Recreated an SAP customer's existing financial services web app using [Android](#) to assist during a product pitch
- Apps developed used in demos at the SAP Sapphire 2018 conference with over [21,000 attendees](#)

### Software Engineering | CIBC LIVE LABS

September - December 2017 | Toronto, ON

- Worked on native development of an internal project sharing [iOS](#) app using [Swift](#) and the [Java Spring Framework](#)
- Built backend services for a financial recommendation chat bot using the [Java Spring Framework](#) and FB Messenger APIs
- Developed prototype of a credit card points Chrome extension in [JavaScript](#) to simplify the earning and spending process
- Utilized [Ethereum smart contracts](#) and [Web3j](#) to explore blockchain's applications in financial agreements

## PROJECTS

### Twisimilar

GITHUB://TWISIMILAR | COLINMARSCH.ME/TWISIMILAR

- Developed a machine learning classification model using [scikit-learn](#) to match tweets to their corresponding user
- Implemented [NLP](#) preprocessing techniques such as [stemming](#) and [tf-idf vectorization](#)
- Published model as a web app built with [Flask](#) and [React.js](#)

### WaterlooTalks

GITHUB://WATERLOOTALKS

- Won the [3rd Place Prize at MSFT Hacks 2017](#) for this mental health support chat-bot
- Used [Node.js](#) and Microsoft Cognitive API's to connect users with helplines and counselling services in the Waterloo region

### Android Weather App

GITHUB://SIMPLEWEATHERAPP

- Utilized the OpenWeatherMap and Google API's to display current weather and 7-day forecasts
- Employed a [SQLite database](#) to store the users saved cities