






# MUHAMMAD REHMAN

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## SKILLSET

### Data Science

SciPy, Numpy, Pandas, Matplotlib,  
Apache Spark, Natural Language  
Toolkit (NLTK), SQL, R, Matlab

### Web

#### Frontend

ReactJS, Foundation, Bootstrap,  
HTML • CSS • JS

#### Backend

NodeJS, Express, Websockets,  
Redis, PostgreSQL

### Mobile

Android, iOS

### Languages

Java, Python, C++, Swift,  
Javascript (ES6), R

## EDUCATION

### University of Waterloo

#### Candidate for Bachelor of Mathematics

Applied Mathematics with a  
minor in Combinatorics and  
Optimization

Expected May 2019

## COURSEWORK

#### Undergraduate

Computational Mathematics  
Inferential Statistics  
Functional Programming

#### Online

Data Structures & Algorithms  
Machine Learning  
Data Visualization

## WORK EXPERIENCE



### Medella Health

Software Engineering Intern

May 2016 - August 2016

- Developed an **Android** application that communicates with glucose sensing unit using **Near Field Communication (NFC)** for continuous glucose monitoring.
- Implemented web scrapers in Python to scrape VSP and OptoCanada to obtain data of over **20,000** clinics and clinicians.
- Led development of web application using **VueJS, Node & Websockets** for clinicians to interface with osmolarity sensing unit.
- Built a data visualization tool that enables management to view employee hours, track progress on projects and improve productivity.
- Deployed an email forwarding server using **Node** and a real-time database using **Firebase**.
- Designed an e-commerce website for nanomaterials using Shopify.



### New York Institute of Technology

Mobile Application Developer

May 2015 - August 2015

- Designed and implemented an **iOS application** for the New York Institute of Technology's student portal used by over **8000** students.
- Collaborated with the student administration to build a course scheduling and appointment booking system for students.
- Implemented a **Node server** that pushes updates to React client and sends SMS notifications to students regarding their appointment details.

## PROJECTS

### Trackr

Progress Tracking web application

October 2016 - Present

- A web application that allows users to track their progress in creating and maintaining new habits through a multitude of visualizations
- Built using **React, Node, PostgreSQL** and **D3**

### KNN-der

Machine Learning side project

October 2016

- A Dating application that utilizes **k-nearest neighbors** algorithm to determine the perfect match for you
- Built python command-line application using **SciPy, Pandas** and **Matplotlib**

### Woofpack

AngelHack Montreal Project- Top 3 Finalist

June 2016

- An **Android** app that allows tourists with common interests to travel in packs and explore different cities together
- Implemented Expedia API, Yelp API and geolocation to allow users to connect and explore different sites

### HelpFall

DeltaHacks Project - Top 5 Finalist

February 2016

- An **iOS** app built for patients with epilepsy to detect when a person is having a seizure using accelerometer measurements
- App sends notification to emergency contact and requests dispatch from nearest hospital upon detecting seizure
- Built using **Core Services, Twilio API** and **Firebase**