






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, 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 for clinicians to interface with osmolarity sensing unit using **VueJS, Node & Websockets**.
- Built a data visualization tool that enables management to view employee hours and track progress on projects.
- 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**