

# Subhan Nadeem

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## EDUCATION

### UNIVERSITY OF WATERLOO YEAR 3B

Honours Bachelor of Computer  
Science, Year 3B  
Graduating 2020

### WILFRID LAURIER UNIVERSITY YEAR 3B

Honours Bachelor of Business  
Administration, Year 3B  
Graduating 2020

## SKILLS

React • Node.js • Android • Javascript  
C++ • C • SQL • HTML/CSS • Java

## LINKS

subhan-nadeem.com/GitHub  
subhan-nadeem.com/LinkedIn  
subhan-nadeem.com/Twitter

## EXTRACURRICULAR AWARDS

### 1ST PLACE AT RU HACKS 2017 | MACHINE LEARNING, PYTHON, IOT, ANDROID | [git.io/vNonE](https://git.io/vNonE)

- Lead the design and creation of a frictionless shopping system inspired by Amazon Go, utilizing computer vision and ultrasonic sensors
- Implemented facial recognition application and algorithm utilizing Android's native computer vision API and remote human analytics pipeline

### 1ST PLACE AT Q HACKS 2017 | PYTHON, FLASK, SQLITE, ANDROID | [goo.gl/EfxpLX](https://goo.gl/EfxpLX)

- Created an Android application with a custom Python Flask REST server that enables users to find the most budget-friendly eateries nearby by conducting REST calls to our custom back-end, displaying menu data of all surrounding restaurants, and caching network responses locally using mobile SQLite

### TOP TECHNOLOGY WRITER | [subhan-nadeem.com/Medium](https://subhan-nadeem.com/Medium)

- A top contributing writer at a number of the world's largest online technology publications on Medium.com. Articles consist of programming guides, project implementation guides, and blockchain technology research

## PROJECTS

### SANDCASTLE | NODE.JS, WEBSOCKETS, SQL, AWS, ANDROID | [git.io/vNoCA](https://git.io/vNoCA)

- A proximity-based real-time chat application that enables users to contribute to local chat boards and private message individuals within those individual boards
- Backed by a PostgreSQL database that stores users, chatrooms, and messages, with a Node.js backend that handles all front-end RESTful calls and communicates to front-end via custom websocket implementation

### C-TRIS | C++

- Multi-level Tetris employing MVC, factory, and observer design patterns, with text and graphics

### IGNITE FOR REDDIT | ANDROID

- Enables users of the popular news aggregator site Reddit receive notifications of trending posts of topics of their choice by utilizing Reddit API and Android SDK (Architecture (MVVM), Material Design, AlarmManager, FCM)

## EXPERIENCE

### FIIX | Software Engineer

January 2018 - April 2018 | Toronto, Canada

- Increased technician routing and scheduling efficiency by 60% by implementing intelligent automated route tracking using React, custom Node.JS APIs, and Google Maps API
- Overhauled front-end database search system by developing autocomplete UI with optimized MongoDB queries, increasing sales quote efficiency by 20% and reducing page load times by factor of 5

### NORTH60 TECHNOLOGIES | Android Developer

January 2017 - April 2017 | Toronto, Canada

- Created low-level security framework using Android C++ NDK and RSA encryption to secure on-phone patient data
- Acting as leading Android developer, lead the implementation of Android front-end and APIs that digitized doctor-patient communications

### MOSAIC SALES SOLUTIONS | Field Team Lead

April 2016 - August 2016 | Toronto, Canada

- Created Android application backed with a Firebase NoSQL database that enabled employees to track and report their own field performance, increasing employee performance tracking efficiency by 60%