

# Shahzor K. Hossain

+1 (647) 915-2288 | [shahzor.hossain@mail.utoronto.ca](mailto:shahzor.hossain@mail.utoronto.ca) | <https://github.com/shahzorHossain>

## Education

### University of Toronto

BASc IN COMPUTER ENGINEERING

Toronto, ON

June 2019

## Skills

- PROFICIENT IN C, C++, PYTHON, SWIFT, REACT, NODE.JS, HTML, CSS, JAVASCRIPT
- WORKED WITH SCIKIT-LEARN, EXPRESS, IBM LOOPBACK

## Experience

### Maya Apa

iOS DEVELOPER INTERN

Dhaka, Bangladesh

July 2017 – Sept. 2017

- Developed the iOS MVP in which women can anonymously receive counselling from an online community of professional therapists.
- Implemented real-time messaging between users and therapists using Firebase.
- Implemented password-less login with Facebook, SMS or email using the Facebook Login and Account Kit SDK.
- Implemented an algorithm which reduced loading time of more than 100 messages by 50%.

### StableHacks

SOFTWARE DEVELOPER INTERN

Toronto, ON

May 2017 – August 2017

- Developed a cross-platform app using Ionic and AngularJS where users can bet on and buy shares of racing horses.
- Integrated the frontend with a Node.js backend developed using the Loopback framework.
- Managed a PostgreSQL database of over 200 horses using REST API calls.
- Integrated Facebook Login and Google Sign In using the respective API keys and redirecting callback functions.

## Projects

### SpeechIO

BACKEND DEVELOPER

HackTheNorth

Sept. 2017

- Developed an app in Java, to help the visually impaired to practice speeches using voice recognition.
- Speech input and Firebase is used for real time monitoring of each practice session.
- Feedback is given for speech accuracy and words/sec.

### MapVenture

BACKEND DEVELOPER

University of Toronto

Jan. 2017 - April 2017

- Developed a GIS web app using C++, EasyGL API and libraries such as STL - Standard Template Library.
- Implemented various data structures including R-trees and Trie trees.
- Implemented and optimized Dijkstra's algorithm, further using it in our Greedy algorithm for solving the Travelling Courier Problem.

### Let's Talk

FULL STACK DEVELOPER

Personal Project

Sept. 2017

- Developed an automated SMS chatbot informing users about where to find resources and links after moving into a new city.
- Implemented the backend using NodeJS with Twilio Client and Watson Conversation APIs.
- The project is targeted for new immigrants and refugees seeking help in a new country.

## Leadership

### Footsteps

DIRECTOR OF RESEARCH AND CO-FOUNDER

Dhaka, Bangladesh

April 2013 – August 2016

- Coordinated over 600 volunteers and 7 events, including 2 sustainability projects based on an original social business model in Bangladesh.
- Awarded for contribution in the field of "Sustainable Development and Waste Management" through, Project WECAN by the European Union, and JICA.
- Received invitations to national as well as international conferences on sustainability and water management.
- Received recognition in national newspapers for 5 projects, 2 of which were turned into a social business ventures, while the others were charity drives for 3 remote communities in Bangladesh.

### Engineers Without Borders (UofT Chapter)

VP OUTREACH, YOUTH ENGAGEMENT EXECUTIVE

Toronto, ON

Oct. 2016 - Sept. 2017

- Responsible of all outreach activities, contacting people for events and planning them accordingly.
- Led workshops and meetings on social change and sustainable development with high school students in the GTA.
- Managed over events throughout the year with collaboration from 6 other people in the team.