

# NAYMUL HOSSAIN

 [naymul.com](http://naymul.com)  [n5hossai@edu.uwaterloo.ca](mailto:n5hossai@edu.uwaterloo.ca)  [github.com/n5hossai](https://github.com/n5hossai)  519-573-6376

---

## SUMMARY:

**Development** Java, JavaScript, XML, SQL, AngularJS, Node.js, jQuery, Python, C, C++, Bash, R, Scheme, HTML, CSS  
**Tools** TensorFlow, Dialogflow, Microsoft Azure, IBM Watson, Spring Boot, Git, Bootstrap, Scrapy, Scrum  
**Strength** Object Oriented Programming, RESTful API, TDD, Unit Testing, USSD, NLP, Ajax, Database Management

---

## EXPERIENCE:

### bKash Limited

Software Development Intern

May 2019 - Aug 2019

Dhaka, Bangladesh

- Integrated a conversational agent to increase the response rate to customers in Facebook by **70%** with **Dialogflow**
- Implemented bKash USSD **API** for transactions in Messenger with **Java** and performed unit testing with **Spring Boot**
- Developed **SPA** for Messenger's WebView with **React** and manipulated its DOM with **AngularJS** for transactions

### icddr, b

Data Analyst

Jun 2018 - Aug 2018

Dhaka, Bangladesh

- Built a model to recognize satellite images aerially for land cover classification by utilizing **Python** and **R**
- Trained the model with satellite images using **Microsoft Azure**, and analyzed sample data with **R**
- Facilitated by locating geocoordinates based on the land covers of remote areas for the medical team of icddr, b

### Nerd Community

Web Development Intern

May 2017 - Aug 2017

Dhaka, Bangladesh

- Developed webpages, created registration and recruiting forms using **Node.js**
  - Implemented UI changes by converting static elements to responsive components using **jQuery**
  - Integrated educational contents and preparatory materials to the website using WordPress and FileZilla
- 

## PROJECTS:

### Customer Churn Detection

[git.io/fhS0t](https://git.io/fhS0t)

- Created a geographic segmentation model to identify customers at high risk of leaving the bank with **Python**
- Using 6 months history for **10000** customers of those banks, an artificial neural network is trained with **TensorFlow**

### Bullying Shield

[git.io/fhUM9](https://git.io/fhUM9)

- Designed a browser extension to web scrape for bullying statements with **Scrapy** during StarterHacks competition
- Utilized **IBM's Watson's** Natural Language Processing **API** to perform sentimental analysis for the web page
- Generated the sentimental analysis score and classified bullying statements by **Python** to be blurred visually

### Version Control

[git.io/JeEd0](https://git.io/JeEd0)

- Built a version-control system for tracking source code during software development using **C++** with **OOP** concept
- The program is used to fetch or change previous versions of a file with linear time traversal

### Vehicle

[git.io/Je8zl](https://git.io/Je8zl)

- Created a project to mimic the application of a remotely controlled vehicle using **Java** with **OOP** concept
- 

## EDUCATION:

### University of Waterloo

Sep 2017 – Present

Candidate for Bachelor of Mathematics, Honours Computational Mathematics, Minor in Computer Science and Statistics

**Relevant Courses:** Object Oriented Programming, Deep Learning A-Z™, JavaScript, Algorithm Design & Data

abstraction, Data Types & Structures, Logic & Computation, Sampling & Experimental design

---

## AWARDS & EXTRACURRICULAR ACTIVITIES:

**Awards:** University of Waterloo- President's Scholarship of Distinction (2017), The Daily Star Award (2015)

### University of Waterloo Bengali Student Association, President

Jan 2019 - Apr 2019

- Recruited a team of 8 executives for the term and planned for upcoming events to practise Bengali Culture
  - Managed finances of the club to create monthly cash reports for cash surplus/deficit using Microsoft Excel
- 

**INTERESTED IN:** Full Stack or Backend Engineering, Machine Learning, Data Science, App development