

# NAYMUL HOSSAIN

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## SKILLS

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- Languages: C++, C#, C, Go, Java, Python, JavaScript, XML, Bash, Scheme, R, SQL, MATLAB
- Tools & Frameworks: React, Node.js, AngularJs, Bootstrap, jQuery, Django, Flask

## EDUCATION

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### University of Waterloo

Sept '17 – Aug '21

*Bachelor of Mathematics, Honours Computational Mathematics, with Minor in Computer Science, Statistics and Combinatorics & Optimization*

## EXPERIENCE

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### bKash Limited

Dhaka, Bangladesh

*Software Development Intern*

May – Aug '19

- Integrated a conversational agent in Facebook, automating customer service with **Dialogflow**
- Developed Messenger's WebView with **React**, and manipulated its *DOM* with **AngularJS**
- Implemented bKash USSD **API** in the backend for the transactions in Messenger with **Java**

### icddr, b

Dhaka, Bangladesh

*Data Analyst*

June – Aug '18

- Built a classifier, using **Microsoft Azure's CNTK model**, by utilizing **Python** and **R**
- Facilitated medical team of icddr, b by identifying land covers of remote areas with the classifier

### Nerd Community

Dhaka, Bangladesh

*Web Development Intern*

May – Aug '17

- 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 using *WordPress* and *FileZilla*

### University of Waterloo

Waterloo, ON

*Department of Athletics & Recreation, Athlete Tutor*

Sept '19 – Present

- Tutor for Computer Science, Statistics and Mathematics for the university athletes

## PROJECTS

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- **Stratego** –
  - A multiplayer functionality of the game *Stratego* for upto 4 players with graphics
  - Implemented with **C++** *OOP* paradigm using the *decorator*, *observer* and *MVC* design patterns and *RAII* idiom. Integrated *X11 Forwarding* for graphics
- **ChurnSpot** –
  - Created a segmentation model to spot customers at risk of leaving the bank
  - Using a dataset of **10000** customers, an *ANN* is trained with **TensorFlow**
- **BullyNot** –
  - Designed a browser extension to web scrape for bullying statements with **Scrapy**
  - Utilized IBM Watson's **NLP** API to perform sentimental analysis with **Python**
- **VersionSway** –
  - Built a version-control system for tracking changes in source code using **C++**
  - The program is used to fetch or change versions of a file in *linear* time traversal

## AWARDS & EXTRACURRICULAR ACTIVITIES

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- ★ University of Waterloo Bengali Student Association, President Jan – Apr '19
- ★ University of Waterloo President's Scholarship of Distinction Sept – Dec '17
- ★ StarterHacks, Development Mentor Jan '20