NAYMUL HOSSAIN

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SKILLS

- · 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

University of Waterloo

Sept '17 – Aug '21

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

EXPERIENCE

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**
- \cdot Implemented bKash USSD **API** with messenger, and increased transaction efficiency by 15%

icddr, b
Data Analyst

Data Analyst

Dhaka, Bangladesh
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, Banqladesh

Web Development Intern

May – Aug '17

- · Developed webpages, created registration and recruiting forms using **Node.js** to be automated
- · 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 – Dec '19

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

PROJECTS

- \cdot **Stratego** \cdot 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
- <u>Protein-Fold</u> Model with 97% accuracy to determine protein structure from different variates MSE & RMSE values were tested for, after training with k-fold cross-validation
- · <u>VersionSway</u> · 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
- · TCP-Socket · Created a TCP Socket program, in a client-server environment for file transfers

AWARDS & EXTRACURRICULAR ACTIVITES

* 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