

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

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** 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

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

AWARDS & EXTRACURRICULAR ACTIVITIES

- ★ 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