NAYMUL HOSSAIN

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SUMMARY

- · Experience with OOP, RESTful API, NLP, Database Management, TDD, Unit Testing, Ajax
- · C++, C, Go, Java, Python, JavaScript, XML, AngularJS, Node.js, jQuery, Bash, Scheme, R, SQL

EDUCATION

University of Waterloo

Sept '17 – Apr '21

Bachelor of Mathematics, Honours Computational Mathematics, Minor in Computing and Statistics

EXPERIENCE

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

bKash Limited

Dhaka, Bangladesh

 $Software\ Development\ Intern$

May – Aug '19

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

icddr, b

Dhaka, Banqladesh

June – Aug '18

Data Analyst

- · Built a model to recognize satellite images for land cover classification by utilizing Python & R
- · Trained the model using Microsoft Azure, and analyzed sample data with R
- · Facilitated by identifying different land covers of remote areas for the medical team of icddr, b

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

PROJECTS

- \cdot <u>Stratego</u> \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>ChurnSpot</u> · 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**
- · <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 triversal

AWARDS & EXTRACURRICULAR ACTIVITES

* University of Waterloo Bengali Student Association, President

Jan – Apr '19

* University of Waterloo President's Scholarship of Distinction (2017)