

NAYMUL HOSSAIN

naymul.com — n5hossai@edu.uwaterloo.ca — in/nay — github.com/n5hossai

SUMMARY

- Experience with OOP, RESTful API, NLP, Database Management, TDD, Unit Testing, Ajax
- C++, C, 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, Bangladesh

Data Analyst

June – Aug '18

- 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

- **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

★ University of Waterloo Bengali Student Association, President Jan – Apr '19

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