NAYMUL HOSSAIN

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Skills

· Languages: Python, C++, C#, Java, JavaScript, C, Go, Git, R, MySQL, PostgreSQL
· Tools & Frameworks: AWS, Node.js, React, Docker, jQuery, Django, Flask, IBM NLP
· Courses: Deterministic OR Models, Network Flow Theory, Data Types & Structures, Algorithm Design, Networks & Distributed Systems, Computational Linear Algebra, Applied Cryptography

Education

University of Waterloo Sept '17 – Aug '21

Major: *Bachelor of Mathematics, Honours Computational Mathematics*

Minors: ⋆ *Computer Science* ⋆ *Statistics* ⋆ *Combinatorics & Optimization*
Award : *University of Waterloo President's Scholarship of Distinction*

Experience

bKash Limited
Software Engineer (Full Stack Developer) May – Aug '19

· Integrated a conversational agent in Facebook, automating customer service with **Dialogflow**
· Developed Messenger's WebView with **React JS**, and designed it using **Bootstrap**
· Implemented bKash USSD **API** with messenger, and increased transaction efficiency by **15%**

icddr, b
Software Engineer (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
Software Engineer (Full Stack Developer) 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
Computer Science & Mathematics Tutor Sept – Dec '19

· Taught university athletes up to 3^{rd} year level of Computer Science and Mathematics courses

Projects

Stratego · Implemented a multiplayer functionality game engine with interactive graphics
· Applied object oriented **C++** principles, systematized with design patterns

Protein-Fold ·Built a model to determine protein structure using **K-fold Cross-Validation**
·Delivered a **97%** accuracy, with **MSE** & **RMSE** supporting the findings

UltraInstinct ·Utilized **IBM**'s **NLP API** to perform sentiment analysis on public tweets
·Scraped the data using **Flask** and developed an algorithm to generate scores

VersionSway ·Built a version-controlling system using object oriented **C++** principles

· **TCP-Socket** ·Created a **TCP Socket** program, in a client-server environment for file transfers