

NAYMUL HOSSAIN

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SKILLS

- Languages: Python, C++, C#, Java, JavaScript, C, Go, Git, R, MySQL, MongoDB
- Tools & Frameworks: AWS, Node.js, React, Docker, jQuery, Django, Flask, IBM NLP

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 3rd 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

EXTRACURRICULAR ACTIVITIES

- ★ University of Waterloo Bengali Student Association, President Jan – Apr '19
- ★ StarterHacks, Development Mentor Jan '20