

# NAYMUL HOSSAIN

naymul.com — n5hossai@uwaterloo.ca — in/nay — github.com/n5hossai — (+1) 289 668 8130

## SKILLS

---

- Languages: C++, C#, C, Go, Java, Python, JavaScript, Git, Docker, R, SQL, MATLAB
- Tools & Frameworks: React, Node.js, AngularJs, Bootstrap, jQuery, Django, Flask

## EDUCATION

---

### University of Waterloo

Sept '17 – Aug '21

**Major:** *Bachelor of Mathematics, Honours Computational Mathematics*

**Minors:** ★ *Computer Science* ★ *Statistics* ★ *Combinatorics & Optimization*

## EXPERIENCE

---

### bKash Limited

*Software Engineering Intern (Full Stack Developer)*

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

*Software Engineering Intern (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 Engineering Intern (Front End 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 Tutor*

Sept – Dec '19

- Taught university athletes up to 3<sup>rd</sup> year level of Computer Science 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
- 🔗 **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

## 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