NAYMUL HOSSAIN

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SKILLS

- Languages: Python, C++, C#, Java, JavaScript, C, Git, R, MySQL, PostgreSQL
- Tools & Frameworks: AWS, Node.js, React, Docker, Django
- Courses: Data Types & Structures, Network Flow Theory, Networks & Distributed Systems, Algorithm Design, Deterministic Models, 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

- Trained a conversational agent with **Dialogflow**, both in English and Bengali, for a population of **28 million** active users and integrated Facebook's SDK, to automate the customer services
- Developed Messenger's WebView with **React JS**, to implement bKash USSD **API** securely using **Node.js** in the backend, increasing financial transaction efficiency by **15%**

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Software Engineer (Data Analyst)   June – Aug '18

- Trained **Azure's CNTK model** over **10,000** satellite images to classify land covers, optimizing medical camps' locations nearest to the population living in remote areas of Bangladesh

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**

University of Waterloo

Computer Science & Mathematics Tutor   Sept – Dec '19

- Tutored 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