NAYMUL HOSSAIN

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SKILLS

- · Tools & Languages: R, Python, SQL, MongoDB, MATLAB, Git, Docker, C++, C, Java, Jupyter
- · Frameworks & Libraries: Numpy, Keras, Tensorflow, Matplotlib, Pandas, Scikit-Learn
- · Coursework: Computational Statistics & Data Analysis, Applied Linear Models, Computational Inference, Sampling & Experimental Design, Data Types & Structures, Object-Oriented Software Development, Computational Linear Algebra, Databases

EDUCATION

University of Waterloo

Sept '17 - Aug '21

Major: Bachelor of Mathematics, Honours Computational Mathematics

 $\mathbf{Minors:} \star Statistics \quad \star \ Computer \ Science \quad \star \ Combinatorics \ \& \ Optimization$

Award: University of Waterloo President's Scholarship of Distinction

EXPERIENCE

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

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 and its DOM with React, and designed it using Bootstrap
- · Implemented bKash USSD API with messenger, and increased transaction efficiency by 15%

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

Protein-Fold · Built a model to determine protein structure using K-fold Cross-Validation

·Delivered a 97% accuracy, with MSE & RMSE supporting the findings

Digit Classifier Built a model to determine handwritten digits, implementing Tensorflow

•Three convolution and three connected layers were used to create the **DNN**

·The test loss was 0.0609, and validation accuracy was 0.9826 after 5 epochs

Stratego · Implemented a multiplayer functionality game engine with interactive graphics

 \cdot Applied object oriented C++ principles, systematized with design patterns

<u>VersionSway</u> ·Built a version-controlling system using object oriented C++ principles

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EXTRACURRICULAR ACTIVITES

* University of Waterloo Bengali Student Association, President

Jan – Apr '19

* StarterHacks, Development Mentor

Jan '20