

NAYMUL HOSSAIN

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SKILLS

- Languages: Python, HTML, CSS, JavaScript, C++, C, Java, R, MATLAB
- Tools & Frameworks: Git, Jira, Docker, Postman, Django, Django REST Framework, Jinja 2
- Databases & Cloud Platforms: PostgreSQL, SQLite3, Redis, Heroku, AWS RDS, AWS S3 Bucket
- Courses: Data Types & Structures, Networks & Distributed Systems, Algorithm Design

LICENSES & CERTIFICATIONS

🔗 **Javascript Essentials** 🔗 **Django: Build & Deployment**

EDUCATION

University of Waterloo

Sept '17 – Aug '21

Major: *Bachelor of Mathematics, Honours Computational Mathematics*

Minors: ★ *Statistics* ★ *Computer Science* ★ *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

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

🔗 **DailyTaskmate:** Created a task manager web application using **Django Framework** by deploying on **Heroku Server**, with the help of **gunicorn**, and migrated the database from **SQLite3** to **PostgreSQL**. Built registration page using **Crispy Form** and used **CRUD** functionality for users based on *MVT Design Patterns*. Hosted at **dailytaskmate.herokuapp.com**

🔗 **Pokemon API:** Created a **REST API** using **Django REST Framework** performing **CRUD** functionalities for Pokemons' names and traits, and automated testing using **Postman**

🔗 **Management Platform:** Created a management platform using **Django** with **CRUD** functionalities, user authentications and filter forms for table searches. Implemented **AWS S3 Bucket** & **AWS RDS** to connect **Postgres** database, and deployed using **Heroku's** live server

🔗 **Stratego:** Implemented a multiplayer game engine with interactive graphics using *C++ object oriented principles*, and systematized with observer and decorator design patterns

🔗 **UltraInstinct:** Utilized **IBM's NLP API** to perform sentiment analysis on public tweets after scraping the data using **Flask** and developed an algorithm to generate scores for individuals