

# NAYMUL HOSSAIN

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## SKILLS

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- 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, MySQL, Redis, Heroku, AWS
- Courses: Data Types & Structures, Networks & Distributed Systems, Algorithm Design

## LICENSES & CERTIFICATIONS

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

## EDUCATION

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### 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

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### 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%**

### icddr, b

*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 3<sup>rd</sup> year level of Computer Science and Mathematics courses

## PROJECTS

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🔗 **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 **dailymtaskmate.herokuapp.com**

🔗 **Pokemon API:** Created a **REST API** using **Django REST Framework** performing **CRUD** functionalities and automated testing using **Postman**

🔗 **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

🔗 **VersionSway:** Built a version-controlling system using *object oriented C++ principles*