

# NAYMUL HOSSAIN

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## SKILLS

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- **Languages:** Python, Go, Java, JavaScript, HTML, CSS, C++, C, R, MATLAB
- **Tools:** Github, Jira, Docker, Postman, Jinja 2, Heroku, AWS (EC2, RDS, S3), Dialogflow
- **Frameworks & Databases :** Django REST, Gorilla, PostgreSQL, SQLite3, MongoDB, Redis

## 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*

## EXPERIENCE

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### bKash Limited

*Backend Engineering (Intern)*

May – Aug '19

- Trained a conversational bot with Dialogflow, and integrated its API to automate customer services for a userbase of 28 million in both English & Bengali languages
- Implemented endpoints using Django REST for secure communication with JWT Authentication

### icddr, b

*Data Analyst (Intern)*

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 implemented endpoints for CRUD functionality using MVT Design Patterns. Hosted at [taskmate.herokuapp.com](https://taskmate.herokuapp.com)

🔗 **Movies API:** Created a REST API using Gorilla Mux and implemented endpoints for CRUD functionalities for Movies, 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 for storage & AWS RDS to connect Postgres database, and deployed using Heroku's live server

🔗 **Object Detection:** Using pretrained images from the coco.names dataset implemented an object detection model with OpenCV

🔗 **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