NAYMUL HOSSAIN

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SKILLS

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

CERTIFICATIONS

Javascript Essentials | Django: Build & Deployment

EDUCATION

University of Waterloo <div align="right">Sep 2017 – Aug 2021</div>

Bachelor of Mathematics, Honours Computational Mathematics

Minors: Statistics, Computer Science, Combinatorics & Optimization
Awards: University of Waterloo President's Scholarship of Distinction

EXPERIENCE

bKash Limited

Software Engineering Intern (Backend Engineering) <div align="right">May 2019 – Aug 2019</div>

Developed new features, containerized services, improved scalability and fault tolerance

- Remodeled micro-services using Python's Django REST to improve performance by 11%
- Implemented endpoints using Django REST for secure communication with JWT Authentication
- Containerized micro-services using Docker, and performed automated testing using Postman
- Programmed a conversational bot with Dialogflow, and integrated its API with Facebook's SDK
- Used AWS S3 bucket to host linguistic keywords to connect with Dialogflow's API

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Software Engineering Intern (Data Engineer) <div align="right">Jun 2018 – Aug 2018</div>

Built data systems and pipelines, analyzed raw data, built algorithms and prototypes

- Used Python, SQL and Apache Spark to create a cloud-first data ingestion for data processing
- Performed data cleaning using Pandas and NumPy, increasing accuracy of the model by 15%
- Scripted algorithms in Python for land cover classification by leveraging geospatial data

University of Waterloo

Computer Science Tutor <div align="right">Sep 2019 – Dec 2019</div>

- Tutored Discrete Mathematics, Object Oriented Programming & Algorithm Design courses

PROJECTS

Daily Taskmate *(Python, Django REST, PostgreSQL, Heroku)* <div align="right">shorturl.at/ckmJP</div>

- Created a task manager web app using Django with user registration and login authentication
- Implemented CRUD functionalities using Django REST & connected the database with endpoints
- Migrated the database from SQLite3 to PostgreSQL and deployed the app live on Heroku Server

Stratego *(C++)* <div align="right">shorturl.at/buBQX</div>

- Built a multiplayer game engine with interactive graphics using C++ OOP paradigm
- Created UML diagrams and implemented observer, decorator and MVC design patterns

Movies API *(Go, Gorilla, Postman)* <div align="right">shorturl.at/ouGR2</div>

- Created a REST API using Go's Gorilla package for movie information & tested using Postman