



# Rafidul Islam

Software Engineer

## Contact



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Portfolio

[rofe-dl.github.io](https://rofe-dl.github.io)



[github.com/rofe-dl](https://github.com/rofe-dl)



[linkedin.com/in/rofdl](https://linkedin.com/in/rofdl)

## About Me

A programmer looking forward to working with people and learning new technologies to create products that will help people.

## Education

### BSc. in Computer Science

BRAC University

January 2019 - May 2022

CGPA: 3.92 / 4.00

A Levels, Sunnydale School

3 As

O Levels, Sunnydale School

4 A\* 3 As

## Skills

### Programming Languages

Java, Python, JavaScript, Node.js, TypeScript, HTML/CSS

### Frameworks

Django, Express, Bootstrap, Jest, Maven, JavaFX, Mongoose.js, Discord.js

### Tools

Git, Linux OS, Docker, MySQL/MariaDB, MongoDB, Redis, Elasticsearch

## Experience

### BACKEND ENGINEER

at **Airwrk**

August 2022 - Present

- Designed and implemented the core REST API in Node.js & Express.js
- Transitioned proof-of-concept to production-level applications
- Documented endpoints following the OpenAPI specification utilizing Swagger libraries
- Implemented SMS and email verification for user accounts incorporating secure generation, storage and brute force protection
- Utilized Elasticsearch to implement a comprehensive search functionality with multiple layers of filters and pagination features
- Built features enabling the creation and administration of MCQ based exams with automated grading functionality for seamless vetting
- Integrated OpenAI API features to auto-generate description bodies using AI
- Guided a small team of campus ambassadors to design and write unit tests for smaller APIs in Jest and TypeScript
- Designed and wrote thorough unit and integration tests for API endpoints

### STUDENT TUTOR

at **BRAC University**

June 2021 - January 2022

- Worked as a student tutor of CS at BRAC University for Summer and Fall of 2021 to assist over 60 students with their coursework
- Graded course assignments submitted by students

### PROGRAMMING CONTEST

at **BRAC University**

October 2019

- Secured the 1st runner up position at BRACU Intra University Programming Contest (Fall 2019) as a team of 3 to solve programming problems

## Projects

### mongoose-footprints

Author and maintainer of this NPM package, which is a plugin for the library 'mongoose' that logs and tracks changes made to documents in MongoDB by utilizing middleware over CRUD operations to facilitate the creation of audit logs.

### Tamashi

A Discord bot that can follow what a user is listening to on their Spotify and play it back in a voice channel for everyone to tune in and listen along live. It also supports playing songs manually using URLs/titles from YouTube, Spotify, Deezer, Apple Music.

### Anitrack

Website to view information about different anime retrieved from a third party REST API and add them to a watch list. Includes a caching system that stores responses in a Redis server to prevent repeated API calls.

### Passtore

A desktop application made in Java and JavaFX to act as a personal password manager. It supports multiple user registration, each with their own master password. SQLite is used as the file based RDBMS to store data locally.