



# MD. MONIR HOSSAN

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## About Me

I am a self-driven, motivated and passionate individual with almost 2 years of professional experiences in software engineering field.

My professional career started by joining in a startup company. Now I have experience working in 3 startup companies and working in these startups I have gained most of the experience. I know how to work with a lot of pressure in a short period of time.

You are getting everything that I learned from 3 startups. Also if I can understand the work & the functionality I can make that work successful. I also have experience building AI base customer chatbot in Rasa framework.

### Github:

[@MDMONIRHOSSAN](#)

### LinkedIn:

[@MdMonir](#)

### Portfolio:

[md-monir-hossan-portfolio.herokuapp.com](#)

## Highlights

- Very good work ethics and time management.
- Able to work MAC, Windows, Linux Operating system.
- Able to work on different circumstances effectively and efficiently.
- Good troubleshooting capability.
- Very loyal to the company.
- Idea generation capability.
- Very good at writing nice & clean code.
- Good oral and writing English ability.
- Ability to take heavy workload.
- Good communication skill.
- Former Sub-Executive in NSU ACM Student Chapter.
- In charge of TECHNOVATION event that was held at NSU in 2018.
- Lead all academic projects as team leader.
- Very good at building customer chatbot.
- Primary knowledge of machine learning.

## Work Experience

### Software Engineer (Contractual)

**English Essence Limited | October 2020 - May 2021**

English Essence Limited is an EdTech platform. I joined here as a software engineer. And I built the entire infrastructure of the backend system within a short period of time from scratch. I used all the knowledge that I have gained from previous two startups. My job was to build the whole backend system & design a teacher's dashboard from the scratch on Django framework.

English Essence is a communicative English learning app. There are 50+ Lessons 400+ of different types of Quizzes to make students hook with 100s of video and audio lectures. There are also a group communication system which will allow anyone to keep practicing English with his/her peers.

**Mobile App link:** [play.google.com/store/apps/details?id=com.english.essence](https://play.google.com/store/apps/details?id=com.english.essence)

- Product Development:
  - **Backend system:**
    - Built entire backend system from scratch. Designed database and algorithm for the advanced quiz system as well as communicative group. Design & Create more than 100 API endpoints for mobile app. Integrate Firebase for media storage & notification system, integrate celery & celery beat for background and period tasks. Integrate AWS S3 for DB backup, payment gateway adaptation, integrate Sendgrid for mail system.
    - Design a dashboard with Teacher's & Admin user privilege where teacher's can upload all course materials and admin can review, verify, add new teacher, banned & delete users, send & set scheduler notification, take backup and many more.
    - Use Docker for building project image & push to the Heroku container registry. Use PostgreSQL as database.
    - Make all API endpoints documented using Swagger & OpenAPI. Also write manual documentation for all API endpoints in XL sheet.
    - code comment & write entire development & production process in README.md file.

## Key Skills

### Advance:

Python, Django, Django Rest Framework, Rasa, Flask, GitHub, Slack, Trello.

### Intermediate:

HTML, CSS, Bootstrap, JQuery, JavaScript, Java, Heroku, Bit bucket, SQLAlchemy, MySQL, PostgreSQL.

### Primary:

Docker, Docker Compose, Machine Learning, MongoDB (Atlas), Angular, Web Scraping, PHP, Swift,

### Other Skills:

Firebase, Celery, Sendgrid, Port Wallet, AWS S3.

## AI Base Customer Chatbot (Project Based)

### Rokomari

Build contextual AI assistants that really help customers. Automate FAQ & customer care service partially. The chatbot was built using Rasa 1.x framework.

**Bot Link:** [https://www.messenger.com/t/110127826121225/?messaging\\_source=source%3Apages%3Amessage\\_s](https://www.messenger.com/t/110127826121225/?messaging_source=source%3Apages%3Amessage_s)

- Development:
  - Create more than 6000 query for NLU.
  - Create more than 3000 stories for NLU.
  - Integrate the bot with rokomari backend.
  - Automate complete FAQ's.
  - Integrate rokomari API endpoints in the bot to track order & to get order details, submit user query to live agent, submit order to live agent, ask for particular product details .
  - Write documents for all NLU queries & stories as well as FB API in XL.
  - Comment all custom actions or code.
  - Generate documentation for custom python code.
  - Communicate with devOps and customer service team for making the bot available for public use from Facebook page

## cWork Microjob Limited

### Jr. Software Engineer (March 2020 – June 2020)

cWork is a micro job platform, which is a marketplace for gigs. Also cWork Microjob Limited is expertise in conversational AI.

**App Link:** [play.google.com/store/apps/details?id=com.couponapp.couponapp.cwork&hl=en&gl=US](https://play.google.com/store/apps/details?id=com.couponapp.couponapp.cwork&hl=en&gl=US)

- Development:
  - Maintaining a previously created backend system and fixing bugs that were developed with Django Rest Framework for clients.
  - Add new functionality to the backend system.
  - Create and Integrate new API's into customer Chatbot.
  - Maintaining a previously created dashboard system for clients and fixing bugs that were developed with Angular framework.
- **Doctorapa (Not Available)**
  - The DoctorApa is a chatbot that replies to common questions about Covid-19 related information from authentic sources to prevent misinformation.
  - Also provide all covid-19 case related information for entire world and country wise such as total number of infected, deaths, recovered, new infected, new recovered etc.
  - FB Page Link: [https://www.facebook.com/mycareai/?ref=page\\_internal](https://www.facebook.com/mycareai/?ref=page_internal)

## IOS app Intern & Web Designer (Part Time)

### YODA | (November 2018 – August 2019)

Yoda is Bangladesh's first tech enabled platform that connects students and teachers directly and cuts down on the middleman; be it in person, or online.

Website: <https://yodabd.com>

- Development
  - Design IOS mobile application using swift.
  - Integrate backend server API in IOS application.
  - Design modern web pages using HTML, CSS & Bootstrap.

## References

- **Mahdy Rahman Chowdhury, Ph.D.**
  - Assistant Professor at North South University
- **Mustafa Al Momin**
  - Founder and CEO at CWORK Microjob Limited
- **Naqib Hussain**
  - Co-founder & CTO at Woadec

## Academic History

### North South University Dhaka (2015 – 2020)

Bachelor in Computer Science and Engineering (CSE)  
CGPA: 3.32  
Major In Machine Learning (ML)  
Former Sub-Executive in NSU ACM Student Chapter.

### Bangladesh Navy School & College, Chittagong (2014)

Higher Secondary School Certificate (Science)  
GPA: 4.80

## Some Academic Projects

### Senior Design Project

Cost and Time efficient an AI Base Visual Recognition web application which detects red blood cell diseases.

**Web Link:** <https://deploy-rbc-test.herokuapp.com/>

- Development
  - An AI model has already been developed that detects Malaria with the accuracy of 97%. In the background, the microscopic image is then directly input to the system. As output every infected & non-infected cell are labeled as their respective diseases and provide a quantitative understanding of level of severity.
  - A web application which resides an AI Base Visual Recognition System.
  - Implemented in Flask framework.
  - Design Rest API for Mobile Application.

### Internet and Web Technology

**Web Link:** <https://online-travel-tours.000webhostapp.com/>

Online Travel and Tour Agency using HTML, CSS, Bootstrap 4, JS, jQuery, PHP

### Software Quality Assurances & Testing

- Generate HTML format Resume using Java & JavaFX as well as Unit Testing.
- Black box testing of a website using Selenium framework in Java.

## Personal Projects

### Home Decorate

A fully functional E-Commerce web application with paypal payments intergration for logged in user and guest user checkout capabilities.

**Web Link:** <https://online-store-5005-test.herokuapp.com/>

- An online store web application for home decoration.
- Developed on Django framework.
- Registered users have coupon facility, if the user is registered & has a valid coupon then that user will get discount on total amount.
- After completing checkout process an confirmation email will be sent to user email.

### Basha Khujchi (Beta Version)

A smart and time efficient web application for home rental system of Bangladesh to find houses in a smart way.

- A web application for home rental system of Bangladesh.
- Developed on Django framework.
- There is a communication system in this project by which both tenants & house owners can communicate with each other via this system.
- The system is the simplest solution to the rental system. It will reduce hassle & save time for both tenants and house owners.