Md. Hashibul ISLAM

Software Engineer

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⬛ SKILLS

Programming languages	**Java**, **C/C++**, Python, JavaScript
Web Frameworks & Tools	**Spring Boot**, **Spring Security**, **Maven**, **AliCloud**, AWS, NodeJs, ReactJs
Database & ORM	**MySQL**, PostGreSQL, MongoDB, **Spring JPA**, Hibernate
Development tools	**Git**, **Docker**, Jira
Additional Frameworks	**Robot Operating System**, **ARM Cortex-M**, **OpenCV**, TensorFlow

💼 PROFESSIONAL EXPERIENCE

February, 2023
March, 2024 —
(1 year 2 months)

Software Engineer, DARAZ BANGLADESH LTD.-ALIBABA GROUP, Dhaka 1212

> Actively developed microservices using Java and Spring Boot.
> Third Party Logistics (TPL)
>> Developed and maintained this Spring based module for 20+ partners in 4 Asian countries.
>> Developed 4 logistics and REST based micro-services for the TPL service according to SLA.
>> Built and implemented a large scale location management system for the TPL service.
>> Prepared the micro-services for AliCloud staging and live deployment using CI/CD.
>> Regularly utilized Alibaba SLS service to monitor and report on log services.
> Open Daraz
>> Built and released a HMAC SHA256 based authentication SDK for external teams.
>> Assisted in the implementation of the OAuth2 based authorization service.
>> Rigorously tested and documented Open Daraz APIs using Postman.
> Research & Development
>> Developed a Python openCV and DL based image processing application for Graphics team.
>> Worked on research and application of an encryption algorithm for external collaboration.
> Worked with a team of 7 engineers, Lazada and the PM team using agile methodologies.

`Java` `Spring` `Microservices` `MySQL` `Git` `Maven` `Postman` `Python` `OpenCV` `Machine Learning` `Agile` `Jira`

August, 2021
August, 2022 —
(1 year 1 month)

Embedded Software Engineer, AQUALINK BANGLADESH LTD., Dhaka 1212

> Developed software for IoT systems with STM32, AVR and ESP32 micro-controllers with C/C++.
> Written several libraries for STM32 including MODBUS/RS485 and ST7567 display module.
> Interfaced sensors using different communication protocols including MODBUS, I2C and UART.
> Designed and implemented custom GUI for ST7567 5inch display using C.
> Actively performed R&D to develop various embedded systems and sensors.
> Continuously tested firmware and hardware for quality assurance.
> Worked with backend team for data communication with IoT devices using MQTT.

`C/C++` `STM CUBE/MX` `STM8/32` `ARM` `ESP` `MODBUS` `Virtual Studio Code` `Serial Communication`

🎓 EUDCATION

2017-2021	BSc. in Computer Science and Engineering, BRAC University, Dhaka	CGPA : 3.54/4.00
2014-2015	HSC, Rajshahi Board (Govt. Shaheed Bulbul College, Pabna)	GPA : 4.50/5.00
2012-2013	SSC, Rajshahi Board (Pabna Zilla School, Pabna)	GPA : 5.00/5.00

💻 PROJECTS

DARAZ THIRD PARTY LOGISTIC MODULE   2023 - 2024

Backend only

Actively contributing to Daraz's ongoing Third-Party Logistics (3PL) module, a robust Java Spring application designed to streamline logistics operations. The module encompasses several libraries for tasks like REST API development, package management, and real-time updates on collection points and customer returns. Leveraging technologies such as JUnit and OkHttp3, it serves as a versatile backbone for building microservices tailored to various 3PL partners. The system is capable of processing package requests from TPS and OTM modules, allowing seamless integration with existing infrastructure

`Java` `Spring boot` `Junit` `Postman` `Intellij Idea` `Agile`

Open Daraz Platform
2023 - 2024

🔗 Website

This Spring based project steam-lines Daraz seller integration using REST API. This system allows Daraz sellers to easily manage their products on the platform, instead of manual seller product management. The platform is based on Open Lazada and developed using Spring and ReactJs. Sellers can manage orders, inventory and billing using various APIs. The Open Daraz is connected directly to the Daraz Seller Center. OAuth2 is used for API authentication and detailed guide is created for the sellers to easily integrate with their own system.

`Java` `Spring` `Hibernate` `Junit` `Postman`

Daraz e-Commerce Image Processing Application
2023-2023

Source Code Private

I'm actively developing a multi-platform desktop e-commerce image processing application that not only improves background quality but also enhances the subject's colors. Capable of handling both human and object subjects, the application utilizes Python, OpenCV, TkInter, and machine learning algorithms. The software provides options for cleaning the existing background or replacing it, all while preserving the subject's details, shadows, and enhancing its colors. Managed using Agile Scrum methodologies and packaged with CX Freeze, a beta version has already been released

`Python` `OpenCV` `ML` `TkInter` `CX Freeze` `Agile`

Put to light System
2021 - 2022

🔗 Source Code

Designed and implemented Pick To Light/Put To Light system (Spring Boot, MongoDB). Managed diverse nodes (MasterNode, ScannerNodes, SubNodes) with secure registration and data flow. Controlled subnode illumination via QR scans, ensuring error-free communication. Administered dynamic configuration changes without downtime.

`Java` `Spring boot` `MongoDB` `Docker` `AWS` `Git` `Intellij` `Junit`

Free-Flying Robot Control Software (Astrobee)
2020 - 2022

🔗 Demo Video   Source code private

The robot has to be navigated and controlled in the ISS. The software is written in Java and an API is given by JAXA. Advanced mathematical operations are performed in runtime.The software is redundant enough to withstand the randomness of space. Data extraction and position estimation is done by reading QR and AR tags. Java OpenCV-Contrib is used to detect objects and find center of targets.

`Java` `Astrobee-API` `Coordinate systems` `OpenCV-Contrib` `ROS Kenetic` `RViz` `Shell Scripting` `Docker` `Android Studio` `Agile`

💼 Extracurricular Activities

Sep, 2018 Aug, 2021	**Sub-Teamlead, Network and ROS, Mongol Tori, BRAC University** I Was in charge of network, vision and ROS segments of the rover. I also helped in developing the science module and inverse kinematics capable manipulator. `Leadership` `C/C++` `Java` `Python` `ROS Melodic` `Networking` `Aruduino` `Electronics` `URC` `IRC`
Jan, 2020 Dec, 2020	**Chair, IEEE RAS BRACU SBC, BRAC University** While being the panel head, my goal was to help improve the basics of an undergrad student. Multiple large projects, competitions, skill based workshops with Walton as sponsor etc were arranged for the students. `Leadership` `Event management` `Treasury`

🖥 Awards

Runner-Up, Final Round, KIBO Robot Programming Challenge
2021

🔗 https://humans-in-space.jaxa.jp/krpc/2nd/index.html   KIBO RPC 2021

Part of Enigma Systems. First Bangladeshi team to upload a computer program to the International Space Station(ISS).

`Japan Aerospace Exploration Agency(JAXA)` `STEMX365` `National Museum of Science and Technology (NMST)` `IEEE RAS BRACU SBC`

Third Place, University Rover Challenge
2020

🔗 https://urc.marssociety.org   URC 2020

Part of BRACU Mongol Tori. Score is judged by SAR result during COVID pandemic.

`The Mars Society` `BRAC University`

💬 References

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