

# Md. Hashibul Islam

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## Technical Skills

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**Languages:** Java, JavaScript, TypeScript, C/C++  
**Backend:** Spring Boot/Security/JPA, JHipster, GraphQL, REST API, RabbitMQ, Redis, MapStruct, Threading  
**Database:** PostgreSQL, MongoDB, MySQL, Hibernate, MongoTemplate  
**Cloud:** Docker, Jenkins, Digital Ocean, AWS, Git, GitHub, Bitbucket, Linux, CI/CD Pipelines  
**Tools:** Maven, ApiDog, Postman, Swagger, Jira, Agile/Scrum

## Education

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<b>BRAC University</b>	2021
<i>Bachelor of Science in Computer Science and Engineering (CGPA: 3.54 / 4.00)</i>	<i>Dhaka, Bangladesh</i>

## Experience

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<b>Nasir Syntax Solution Ltd. - Nasir Group</b> <i>Software Engineer</i>	July 2024 – Present <i>Dhaka, Bangladesh</i>
<ul style="list-style-type: none"><li>Contributing as a <b>backend Java developer</b> in building Nasir group's software platforms.</li><li><b>Shop Service Module (SSM)</b><ul style="list-style-type: none"><li>Building the <b>Shop Service module</b> enabling sellers to add and manage services in their shops, including service registration, category management, service calendar and service location management.</li><li>Integrating <b>service campaigns and fulfillment</b>, extending campaign logic to services and connecting accepted bids to contracts, checkout/payment, and Delivery module workflows for end-to-end service lifecycle management.</li><li>Developed the <b>Bid Request system</b> allowing buyers to create multi-category service requests, where sellers can bid per category with validation to prevent duplicate bids and support multiple sellers per category.</li></ul></li><li><b>Price Engine Module (PEM)</b><ul style="list-style-type: none"><li>Built a <b>Price Engine</b> using Java CompletableFuture to fetch and compute product and service pricing in parallel (base price, campaigns, promo codes, shipping).</li><li>Designed a <b>modular and extensible calculation pipeline</b> separating product and service pricing and supporting multiple campaigns.</li></ul></li><li><b>Order Management Module (OMM)</b><ul style="list-style-type: none"><li>Designed and implemented an end-to-end <b>order fulfillment pipeline</b> covering add-to-cart, checkout, order placement, per-seller order splitting, and seller-level order receipt with multi-step order/package statuses.</li><li>Built a flexible <b>packaging and delivery system</b> that creates packages with multiple product parts, manages package requests for pickup/drop-off, and records package journey stages to track every package.</li><li>Implemented a <b>inventory reservation</b> and product management, a two-way seller and hub handshake, and status-transition validation with rollback to ensure data integrity across complex seller, hub, and delivery workflows.</li></ul></li><li><b>Platform Configuration Module (PCM)</b><ul style="list-style-type: none"><li>Developed a versioned <b>dynamic template engine</b> for users to customize home, seller, and campaign pages with marketplace integration.</li><li>Built a <b>policy-making</b> module allowing version-controlled creation of platform policies like warranty, return/refund, and cancellation.</li><li>Implemented <b>inter-service APIs and configuration layers</b> for microservices like ItemPool, Shelf, and Tag to enable dynamic content composition and rendering.</li></ul></li><li><b>User Management Module (UMM)</b><ul style="list-style-type: none"><li>Implemented a <b>role-based authorization system</b> integrating user roles, role groups, and permissions for access control.</li><li>Developed <b>user registration</b>, account, and login modules for user and role management.</li></ul></li><li>Keeping <b>detailed documentation</b> for all services built for developers and stakeholders.</li></ul>	

## Daraz Bangladesh Ltd. – Alibaba Group

Feb 2023 – Mar 2024

### Software Engineer

Dhaka, Bangladesh

- Actively developed microservices using Java and Spring Boot.
- **Open Daraz**
  - \* Built an **HMAC-SHA256-based authentication SDK** to enable secure third-party integration with Daraz APIs.
  - \* Implemented an **OAuth2-based authorization** service for external developers and partners.
  - \* Thoroughly tested and documented Open Daraz APIs using Postman to ensure reliability and ease of adoption.
- **Third Party Logistics (TPL)**
  - \* Developed and maintained a Spring-based **logistics integration module** serving **20+** partners across 4 Asian countries.
  - \* Implemented a **location management system** to support efficient tracking and operations with partners.
  - \* Developed and maintained **order pipelines and tracking** for logistics partners.
  - \* Utilized **Alibaba SLS** to actively monitor, analyze, and report on application logs and system performance.
- Developed a Python OpenCV and deep learning-based **image processing application** for the graphics team.
- Collaborated with a cross-functional team of 7 engineers and PMs from Lazada using agile methodologies.

## AquaLink Bangladesh Ltd. - Jamil Group

Aug 2021 – Aug 2022

### Embedded Software Engineer

Dhaka, Bangladesh

- Developed software for IoT systems with **STM32, AVR, and ESP32 microcontrollers** using C/C++.
- Written **several libraries for STM32** including MODBUS/RS485 and ST7567 display module.
- Interfaced sensors using **MODBUS, I2C, and UART** protocols.
- Designed and implemented **custom GUIs for ST7567** 5-inch displays using baremetal C.
- Performed **R&D for new embedded systems and sensors**; continuously tested firmware and hardware for quality assurance.

## Projects

### Kolom.ai News Platform | Python, Java, Spring Boot, JHipster, Node.js, RabbitMQ, Redis, PostgreSQL, Docker

- Built a short-form news aggregation platform inspired by Inshorts, scraping content from major Bangladeshi outlets using a scraper.
- Developing microservices for cataloging, delivery, and authentication, routed via an API gateway with Redis caching and rate-limiting.
- Enabled asynchronous event-driven communication with RabbitMQ for decoupled service interaction.

### Open Daraz Platform | Java, Spring, Hibernate, React.js, OAuth2, Postman, JUnit

- Developed a Spring-based REST platform simplifying product and order management for Daraz sellers through direct API integration.
- Implemented secure OAuth2 authentication and connected the system directly to Daraz Seller Center APIs.
- Documented and tested endpoints with Postman; automated regression testing with JUnit.

### Free-Flying Robot Control Software (Astrobee) | Java, OpenCV-Contrib, ROS Kinetic, RViz, Docker, Android Studio

- Developed robotic control and navigation software for NASA's Astrobee robot used aboard the International Space Station.
- Implemented real-time pose estimation using QR/AR tag detection with OpenCV-Contrib and visualized robot motion in ROS RViz.
- Integrated JAXA's Astrobee API and containerized development environment using Docker.

## Awards

### Runner-up, KIBO Robot Programming Challenge, JAXA, Japan

2021

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

### Third Place, University Rover Challenge, The Mars Society, USA

2020

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