

Md. Hashibul Islam

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Technical Skills

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

BRAC University

Bachelor of Science in Computer Science and Engineering (CGPA: 3.54 / 4.00)

2021

Dhaka, Bangladesh

Experience

Nasir Syntax Solution Ltd. - Nasir Group

July 2024 – Present

Software Engineer

Dhaka, Bangladesh

- Contributing as a **backend Java developer** in building Nasir group's software platforms.
- **Shop Service Module (SSM)**
 - * Building the **Shop Service module** enabling sellers to add and manage services in their shops, including service registration, category management, service calendar and service location management.
 - * Integrating **service campaigns and fulfillment**, extending campaign logic to services and connecting accepted bids to contracts, checkout/payment, and Delivery module workflows for end-to-end service lifecycle management.
 - * Developed the **Bid Request system** 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.
- **Price Engine Module (PEM)**
 - * Built a **Price Engine** using Java CompletableFuture to fetch and compute product and service pricing in parallel (base price, campaigns, promo codes, shipping).
 - * Designed a **modular and extensible calculation pipeline** separating product and service pricing and supporting multiple campaigns.
- **Order Management Module (OMM)**
 - * Designed and implemented an end-to-end **order fulfillment pipeline** covering add-to-cart, checkout, order placement, per-seller order splitting, and seller-level order receipt with multi-step order/package statuses.
 - * Built a flexible **packaging and delivery system** that creates packages with multiple product parts, manages package requests for pickup/drop-off, and records package journey stages to track every package.
 - * Implemented a **inventory reservation** 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.
- **Platform Configuration Module (PCM)**
 - * Developed a versioned **dynamic template engine** for users to customize home, seller, and campaign pages with marketplace integration.
 - * Built a **policy-making** module allowing version-controlled creation of platform policies like warranty, return/refund, and cancellation.
 - * Implemented **inter-service APIs and configuration layers** for microservices like ItemPool, Shelf, and Tag to enable dynamic content composition and rendering.
- **User Management Module (UMM)**
 - * Implemented a **role-based authorization system** integrating user roles, role groups, and permissions for access control.
 - * Developed **user registration**, account, and login modules for user and role management.
- Keeping **detailed documentation** for all services built for developers and stakeholders.

Daraz Bangladesh Ltd. – Alibaba Group

Feb 2023 – Mar 2024

Software Engineer

- 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

- 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.