

SYEAD TANVIR ISLAM MOVIN

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PROFESSIONAL EXPERIENCE

Carga, Dover, Delaware, **United States of America**

Oct 2025 – Present

Head of Engineering (Oct 2025 - Present) (Remote)

Managing the Development, DevOps and QA team of Carga, consisting of multiple maritime products.

- Fully supported the acquisition of new products, and worked towards making the products stable.
- Worked extensively on the devops side to migrate the acquired products, consisting of 50+ services in different languages, to the Carga domain.
- Helped reduce **40K USD** per month azure cost by supporting the migration of .Net Framework legacy projects to on-prem servers.
- Gathered in-depth knowledge on **Azure Kubernetes** services and also on-prem **MicroK8s Kubernetes**.
- Worked on automating CI/CD pipelines in github with **ArgoCD** and **Helm Charts**.
- Created centralized observability and log analytics capability in **Signoz**
- Migrated from **Kafka Message Bus** to **Redpanda** to reduce **10K USD** per month cost.
- Completely rewrote a **Talend** project in **Golang** to reduce **70K USD** per year cost.
- Integrated **Sentry** into all the services to bring better visibility into errors and failures.
- Streamlined **Atlas MongoDB** database to reduce **6k USD** per month cost.
- Implemented **Apache Airflow** to run stateful cronjobs in a pipeline.
- Worked as a **Director** to set up Carga Ltd as a bangladesh branch office of Carga, overseeing day to day operations, building the office from scratch and expanding the branch to a 16 people office.

Astha IT, Dhaka, **Bangladesh**

Jan 2024 – Sept 2025

Senior Software Engineer (Jan 2024 – Sept 2025)

Backend engineer at ShipTracks offshore team. Working on multiple projects using **Golang**, **Java** and frameworks like **Spring boot** to build restful APIs and other data aggregation projects. Building proprietary algorithms to enhance vessel assistance detection on ports throughout the world.

- Built a deployment-ready **Golang Service** from scratch to work with Satellite **AIS Message**.
- Working on a complete rewrite of a proprietary service that was previously built in **Java**, currently building it in Golang with improvements and feature additions.
- Done extensive R&D on **TimescaleDB** to enhance query performance.
- Contributing to the open source **JAIS library** used for decoding Maritime AIS Messages.
- Developing a Golang version of the open source **JAIS library**.
- Built **Prometheus** and **Grafana dashboards** to visualize performance metrics.
- Building on and managing a production deployed instance of **Kubernetes** using **Micro K8s**.
- Deployed multiple services in **kubernetes** and monitoring them through **Grafana**.
- Built **CI/CD pipelines** in gitlab to auto deploy new releases in Kubernetes.
- **Managing** and collaborating with a team of **8 people**, providing them with directions and assistance.
- Part of the technical interview team for resource hiring.

Senior Software Engineer L2 (Jan 2023 – Dec 2023)

Java developer at [ShipTracks](#)' offshore team. Worked on multiple projects using **Spring boot framework** and **Java** to build restful APIs and other data aggregation projects. Extensively worked with PostgreSQL queries to enhance performance.

- Built a deployment-ready **Restful API Service** from scratch following proper **Open API Specifications**.
- Done extensive R&D on data partition in PostgreSQL table to enhance query performance.
- Completely written version two of a production deployed project to improve code standards.
- Updated the projects to use the most recent framework version(**Spring Boot 3**) and **Java 20**
- Solved critical memory leak issues in a data aggregation project and reduced the memory footprint from **12GB** to **2 GB**.
- Fixed critical thread related issues in a performant, production deployed, project, to improve long-term stability.
- Worked extensively with **CSS** and **Thymeleaf** to improve the UI experience of a project.
- Built a live ship tracking project from scratch using **Java 20** and **PostgreSQL**.
- Improved **Satellite AIS Message** decoding logic for data aggregation project to increase throughput by **10%**
- Implemented health endpoints for the data aggregation project to monitor its runtime condition over time.
- Done extensive R&D on **Prometheus** and **Grafana** to visualize the data from the health endpoint.
- Contributed to the auto-deployment of projects from **GitLab CI/CD pipeline**

Senior Software Engineer L1 (Jul 2021 – Dec 2022)

Full stack developer at [Biddle Portal](#)'s (tool for Affirmative Action Plan) offshore team. Worked on the front end using **Angular framework** and **Typescript** to build components and charts with libraries such as **Kendo UI** and **Syncfusion**. On the back end, worked using **C#**, **ASP.NET** and **MySQL database** to create **Microservices** that communicate with UI through REST APIs.

- Manage a team of four; distribute tasks; validate task analysis and estimations and review code.
- Built a responsive [Dashboard module](#) for Data Visualization through charts and grids using **RxJS**, which is around 30% faster than the previous version.
- Wrote complex **Stored Procedures** in **MySQL** for faster backend statistical calculations in charts.
- Updated front-end from Angular version 11 to latest version of Angular(Angular 13).
- Built custom middleware in the microservices pipeline to blacklist invalid authorization tokens and stored them in **Redis Server** for faster access.
- Enhanced UI performance by lazy loading library CSS files separately hence reducing the initial app bundle size by 30%.
- Monitored and resolved memory leak issues with the help of Chrome Dev Tools.
- Improved export feature for charts using **Blink rendering engine** and **Syncfusion** instead of **Webkit**.
- Integrated analytics services such as **Pendo**.
- Implemented support ticket feature using the **HelpScout mailbox API**.
- Designed authentication and authorization using **Auth0**.
- Automate project deployment to QA and Production using **Azure CI/CD pipeline**

Software Engineer (Jul 2019 – Jun 2021)

Full stack developer for [Pointillist](#)'s offshore team which deals with Customer Analytics. Worked on the front end using **AngularJs framework** and **Javascript** to build UI components and charts with libraries such as **C3**. On the back end, worked using **Java** and **Spring framework** to implement REST APIs.

- Optimized UI loading performance notably with the help of Chrome Dev Tools such as **Lighthouse** and **Performance**.
- Improved the loading time by around 45% of a long list of tags (more than 4000 items) that have search, reorder and rename functionality
- Implemented a messaging module with standard features for user communication with **Discourse API** and **Amazon S3** for image storage support.
- Migrated the project from Grunt to **Webpack**, providing configurations to improve hot reload time.
- Migrated project configurations and secrets from appConfig file to **AWS cloud**.
- Created a performance-heavy dashboard with charts and drag, drop and resize features, built using **C3** and **JQuery UI**.
- Built a canvas using the **C3 library** which has zoom-in, zoom-out, drag, drop and resize features.
- Added and updated unit tests using **Mockito** to ensure code changes meet specifications.
- Regularly participate in product meetings to discuss new features with the offshore product team.

SKILLS

• **Golang** • **Java** • **Spring Boot 3** • **Kubernetes** • **Postgresql** • **TimescaleDB** • **Prometheus** • **Grafana**
• **Gitlab** • **Angular 13** • **Typescript** • **RxJs** • **Javascript** • **AngularJs** • **Auth0** • **C#** • **ASP.NET Core** • **EF Core**
• **MySQL** • **Git** • **Microservices** • **Middlewares** • **Redis Server** • **AWS Secret Manager** • **Amazon S3** • **JQuery UI**

EDUCATION

BRAC University, Dhaka, Bangladesh

Master of Science in **Computer Science and Engineering**, CGPA: 3.85

Sep 2023 – Present

Bachelor of Science in **Computer Science and Engineering**, CGPA: 3.65

Jan 2015 – Dec 2018

PUBLICATIONS

- Identification of Adverse Drug reaction using Data Mining and predicting the severity of the reaction using Machine learning.

IEEE Region 10 Humanitarian Technology Conference(R10-HTC) 2018, Colombo, Sri Lanka

Short Description: This work is done on the publicly available, continuously updating dataset from the Food and Drug Administration(FDA) to identify different adverse reactions associated with different drugs.

- Gasless On-Chain Password Manager: A Comparative Analysis Across EVM-Based Platforms.

IEEE International Conference on Blockchain and Cryptocurrency(ICBC) 2024, Dublin, Ireland

Short Description: A blockchain based password storage and strong password suggestion mechanism where the main focus was to reduce the gas cost associated with blockchain.