

# MD. Shariar Hossain Sun

## Software Engineer (Experience: 1.5 years)

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**Summary** — Back-end Engineer with 1.5 years of experience specializing in **Go**. Skilled in building scalable, high-performance server-side applications with expertise in code optimization, database optimization, RBAC implementation, and BigQuery integration. Strong background in microservices architecture, cloud-native solutions (GCP, Docker), and workflow automation. Focused on delivering secure, efficient, and maintainable systems while successfully managing multiple projects.

## Skills

**Languages:** Go, C++, Kotlin

**Databases:** MySQL, BigQuery, Bigtable, PostgreSQL, MongoDB, Firebase, Redis

**Cloud:** GCP

**Frameworks:** Echo, Gin

**Tools:** Git, Docker, Postman

## Experience

**Vivasoft Ltd.**

*Software Engineer*

Mar 2024 – Present

## Projects

**Maxis E-Invoice**

May 2024 – Present

- Maintained and enhanced the **Maxis E-Invoice** back-end for scalability and high performance.
- Engineered a PDF worker generating **20M** PDFs in **30 days**, cutting **BigQuery** calls by **90%** and improving speed by **60%** with batch processing.
- Designed a cancellation system handling **36K** invoices in **2 days** under **IRBM 12 RPM** with **90%** success.
- Automated scheduled PDF generation of **500** PDFs in approx. **3 minutes**, batching every **30s** for optimized throughput.
- Delivered a document search feature, reducing retrieval time and improving accessibility.
- Automated invoice table submissions, streamlining workflow and reducing manual effort.
- Added a duplicate submission prevention mechanism for **IRBM**, improving reliability.
- Integrated **XML** submissions with webhooks for real-time updates and seamless **SAP** tracking.
- Implemented **TIN** validation to ensure compliance and data accuracy.
- Supported invoice cancellation, credit notes, and self-billed credit notes.
- Created reconciliation workflows with **CSV** files from **GCP** buckets to resolve inconsistencies.
- Converted documents into **UBL 2.1** format for standardized e-invoicing.
- Built a data pipeline with a webhook listener, storing PDF status in **BigQuery** for analytics.
- Added **QR code** generation for invoices and merged it into HTML-based PDF templates.

**Wellteam**

Mar 2024 – Feb 2025

- Built a configurable logging system with **Golang runtime library** for error tracing and faster debugging.
- Automated challenge modules with **cron jobs** for timely execution and smooth experience.
- Added dynamic status updates to track engagement and auto-set daily statuses.
- Refactored queries, reducing redundant calls by **25%** and boosting performance.
- Delivered a transaction service ensuring reliable database operations.

**Pi-Access**

Aug 2024 – Aug 2024

- Implemented **RBAC** for secure user authentication and controlled access.

**Blog API (Project Link)**

Jan 2023 – Feb 2023

- Developed RESTful APIs for user management with JWT authentication and pagination.
- Secured blog endpoints supporting CRUD operations, reactions, and comments.
- Optimized API performance through query tuning and standardized schemas.

## Education

**Varendra University**

*Bachelor of Science in Computer Science and Engineering*

*CGPA: 3.91*

Jan 2020 – Feb 2024