



## Atiq Ishraq Arnob

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### Experience:

- ❖ **Cefalo Bangladesh Ltd, Dhaka.** (September, 2022 -)  
*(In collaboration with NordicImagingLab AS, Norway)*
  - **Software Engineer** (September, 2022 - December, 2023)
    - ❖ Working on **C++**-based **3D** graphical medical image viewer backend with **OpenInventor** library.
    - ❖ Working on **C++**-based medical image file analyzer.
    - ❖ Working on **CI/CD** with **Jenkins, docker, bash script** etc.
    - ❖ Working on REST API based on **golang (chi)** and **python (flask)**.
  - **Senior Software Engineer, Cefalo Bangladesh Ltd, Dhaka.** (January, 2024-)  
*Aside from technical work, new assigned roles are the following:*
    - ❖ Working as a deputy lead of the team.
    - ❖ Working as a member of project planning and decision-making team.
    - ❖ Working as a communicator between developers and project manager.
    - ❖ Working on managing **SBOMs** and **dependency track**.
    - ❖ Working on release and deployment process.
- ❖ **Software Engineer, R&D, TigerIT Bangladesh Ltd, Dhaka.** (November, 2019-September, 2022)
  - Working on **C++**-based **SOAP**-consuming Linux services with **Oracle** database integration.
  - Non-blocking interrupt-based Monitoring System with an embedded **REST** web server in **C++** from scratch.
  - Working on web app with a **Express.js & Java** back end and a **React** front end.
  - Working on **C#**-based **SOAP**-consuming Windows services with both **Oracle** and **MSSQL** database integration.
  - Working on a **SOAP**-based software in **Java**.
- ❖ **Software Engineer, eSecureSoft Technologies Ltd, Dhaka.** (January, 2019-October, 2019)
  - Developing two Hospitality business administration **REST** web-app for a professional real estate properties company using **C#, ASP.NET MVC5 framework, JavaScript, HTML, CSS, Bootstrap, MSSQL**.
  - Developing an e-commerce site for a professional client in **Joomla** with **online payment API** integration for digital payment.

### Education:

- B. Sc. in Computer Science and Engineering, Bangladesh University of Engineering and Technology, Dhaka. Graduation Year: November, 2018 - CGPA: 3.50/4.00
- H.S.C., New Govt. Degree College, Rajshahi. Graduation Year: 2013 - GPA: 5.00/5.00
- S.S.C., Govt. Laboratory High School, Rajshahi. Graduation Year: 2011 - GPA: 5.00/5.00

### Skills:

- *Programming Languages:* C++, C, C#, shell programming (bash script, awk, Perl 5), Golang, JavaScript, Python, Java, groovy, Rust.
- *C++ related tools:*
  - ❖ **Libraries:** Qt library, boost library, OpenInventor, gtest.
  - ❖ **Build system:** CMake, conan package manager (Includes writing packages with *Python*),

- ❖ **Tools:** Valgrind, address sanitizers. Also, extensive experience with modern and advanced C++ topics like smart pointers, lambdas, template programming etc.
- *System Programming:* Linux Daemons, Windows Services written in C# .NET framework.
- *Special Skills:* Very adept at using Unix command line tools, 3-D Graphical Application, good knowledge of dicom file system used for MRI imaging, In-depth knowledge on asynchronous, multithreaded programming and inter-process communication.
- *Back-End Web Frameworks:* ASP.NET MVC5, Express.js, Flask, Django, Chi, Java Spring Boot, HTTP server from scratch in C++.
- *Testing frameworks:* Jest, pytest.
- *Front-End Tools:* React.js, HTML, CSS, Ajax, JQuery, Bootstrap etc.
- *Cybersecurity:* SBOMs, dependency track, Snyk.
- *Database:* Oracle, MSSQL, Mongo, MySQL, SQLite.
- *Web Services:* REST, SOAP
- *Dev-Ops:* Docker (Includes writing docker files), Jenkins, Aws.

## Projects:

### Professional Projects:

#### • Medical Image Procession App

*Synopsis:* Working with algorithm heavy image processing.

*Tools:* **C++, gtest, Qt, boost, flask.**

*Database:* **Mongo**

*My Role:* Implementing various part of the project like licensing etc. Also, creating a new web server in flask to send graphs.

#### • A 3D Medical Image Viewer

*Synopsis:* Working with image viewer which shows the medical images and lets user use various 3D objects and tools on it.

*Tools:* **C++, Qt, boost, OpenInventor (3D graphics library), gtest**

*Database:* **Mongo**

*My Role:* Implementing various features of the project and improving different plugins.

#### • Web backend for storing medical information

*Synopsis:* Creating CRUD APIs to interact with database from image procession and viewer application.

*Tools:* **Go**

*Database:* **Mongo**

*My Role:* Implementing various APIs for CRUD operation on Mongo database.

#### • CI Pipeline for a microservice ecosystem

*Synopsis:* Creating CI pipeline using Jenkins, docker, AWS.

*Tools:* **docker, shell scripting, AWS, Jenkins**

*My Role:* Writing various shell scripts, Jenkins and docker files for different part off system to work together.

#### • Unix System Daemons

*Synopsis:* Creating asynchronous Linux daemons which consumes SOAP based API and can log the result in Oracle databases.

*Tools:* **C++, Unix System Tools etc**

*Database:* **Oracle**

*My Role:* Developing multiple system services under a senior supervisor.

#### • Service Monitoring Daemon/Service

*Synopsis:* A non-blocking service watcher with a embedded web server to send related information both of which utilize I/O multiplexing and interrupt-based event handler. Also, a windows version of this was written as well.

*Tools:* **C++, C, Unix System Tools, C#, Windows Service Framework etc.**

*Database:* **Oracle**

*My Role:* Completely writing the project from scratch.

#### • Windows System Services

*Synopsis:* Creating highly-configurable asynchronous Windows services which consumes SOAP based API and can log the result in both MSSQL and Oracle databases

*Tools:* **C#, Windows Service Framework etc.**

*Database:* **MSSQL, Oracle**

*My Role:* Developing multiple system services under a under supervisor

#### • Property Administration and Management System

*Synopsis:* Creating both administrative and user site web apps for one already existing and another brand new system

*Tools:* **ASP.NET MVC5, HTML, CSS, JavaScript, Ajax etc**

*Database:* **MSSQL, Oracle**

*My Role:* Completely writing half the project from scratch.

#### • SOAP based Java Web App

*Synopsis:* Creating a SOAP-oriented web-app in Java based on an existing ASP.NET System

*Tools:* **Java, Java MVC, HTML, CSS, JavaScript etc.**

*My Role:* Building the web-app which consumes the SOAP protocol.

### • System Log Web App

*Synopsis:* Creating both front-end and back-end for a highly-configurable system log displaying web app which consumes SOAP based API and gives us RESTful APIs and can communicate with both MSSQL and Oracle databases in the backend and a dynamic React front end.

*Tools:* **JavaScript, Express.js, Java, React, CSS, Bootstrap etc**

*Database:* **MSSQL, Oracle**

*My Role:* Developing both end as a full-stack web development engineer.

### References:

- Tareq Mamun, Senior Software Engineer (QA), Cefalo Bangladesh Ltd. **Contact Number:** +8801674646008.
- Tashdid Jonayed, Senior Software Engineer, Omnilab Enterprise Solutions. **Contact Number:** +8801755682041.
- Hasanul Banna Shifat, Senior Software Engineer, braciT Ltd. **Contact Number:** +8801832384906.