

Md Ariful Amin

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With more than five years of experience in the software industry, I specialize in developing health-tech wearable applications, especially for smartwatches, using C/C++. I am also skilled at building scalable systems from scratch, optimizing the performance of the overall solution, and delivering impactful projects on time, like [HeartWise](#) at my previous company. To move into more effective data-driven health technological solutions and exciting software solutions, I am pursuing a master's in applied data science at Malmö University, strongly emphasizing machine learning.

EXPERIENCE

Coal Power Generation Company Bangladesh Limited

April 2022 – August 2024

— *IT Engineer*

- Spearheaded idea generation and conducted in-depth requirement analysis for cutting-edge software solutions, resulting in a 15% boost in organizational KPI achievement while managing and continuously optimizing the official website for peak performance.
- Led a front-end development of IT and stationery management software using React, enhancing user efficiency by 30% with optimized UI/UX design and improved system performance.

Samsung R&D Institute Bangladesh, Dhaka

January 2022 - April 2022

— *Lead Engineer*

- Worked with Samsung Research America (SRA) to develop the [HeartWise](#) smart-watch application, a home-based heart wellness program endorsed by top cardiologists in the USA, significantly enhancing remote patient monitoring and speeding up product delivery timelines.
- Implemented key features such as multilingual support, Six-Minute Walk Test (6MWT), exercise data synchronization, and secure wireless connectivity between smartwatch and mobile using BLE. This BLE communication enhancement eliminated the need for LTE connectivity, reducing per-patient deployment costs by 16%.
- Conducted open-source and security verifications for each market release version using in-house software, reducing security risks by 13%.

Samsung R&D Institute Bangladesh, Dhaka

April 2018 - December 2021

— *Software Engineer*

- Created an interactive and reusable UI design for the entire HeartWise Tizen smartwatch application, ensuring a smooth user interface that enhances the experience, especially for elderly users.
- Engineered a robust data retrieval and visualization system for smartwatch sensors through seamless API integration.
- Implemented a self-upgrade mechanism for the Heartwise application to enhance the software update process, ensuring lightning-fast and automated updates for all end-users.
- Resolved more than 300 critical issues to optimize and stabilize the Tizen HeartWise application, driving significant improvements in performance, reliability, and overall user satisfaction.

EDUCATION

MSc. in Applied Data Science

Malmö University, Sweden

SISGP Scholar

Aug 2024 – Present

BSc in Computer Science and Engineering

University of Dhaka, Bangladesh

Jan 2014 - Jan 2018

SKILLS

PROGRAMMING LANGUAGES

C, C++, Python, JavaScript, HTML, CSS, Tailwind CSS, React, NeXTs

APP DEVELOPMENT

Tizen, Android

DATABASE

MYSQL, Firebase, SQLite, MongoDB

CODE REPOSITORY

GitHub, Gerrit

PROJECT MANAGEMENT

Jira, PLM, TRESSA

AWARDS

1. Awarded SI Scholarship for Global Professionals 2024 by the Swedish Institute to support my master's studies.
2. Received the "Icon of the Month (May - June 2019)" honorary award from Samsung R&D Institute, recognizing outstanding contributions among a competitive pool of 300 employees.

PUBLICATION

3. [One Conference Paper](#), titled "Network lifetime aware anchor selection for energy harvesting wireless sensor networks," was presented at the 2017 IEEE Region 10 Humanitarian Technology Conference (R10-HTC).

LINK

Website: <https://ariful-amin.vercel.app/>

GitHub: <https://github.com/ariful59>

LinkedIn:

<https://www.linkedin.com/in/ariful-amin/>