Md Shahriar Hossain Sajib

Problem Solver, Software Engineer

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Codeforces : codeforces.com/profile/introverted

TECHNICAL SKILLS

- **Languages** (C, C++, Javascript, Java, CSS, HTML), **FW/Lib** (ReactJS, NodeJS, Express, Bootstrap),

- **Platforms** (Tizen), **Database** (MySQL, MongoDB), **OS** (Windows, Linux),

- Working Knowledge : Git, Gerrit, Github, PHP, Python, Django, Android

- **Data Structures**, **Algorithms**, **Problem Solving**, **Competitive Programming**

WORK EXPERIENCE

- **Samsung R&D Institute**   Dhaka, Bangladesh
  Software Engineer   (April, 2019 - present)

  - Working on **C/C++** based **Tizen** Platform apps for **Samsung Galaxy Watch**es.
  - Collaborating with **SR (HQ, Korea)** and **SRCN (Nanjing, China)**, implementing new features in **Call** and **Safety Assistance** Modules. Ex. Location tracking for emergency situation, Mock location feature for testing, message design for IPC with mobiles, updates of UI etc.
  - Passed **Professional Test**, a well-renowned intense coding test for all Samsung Engineers globally.
  - Resolved issues and fixed bugs in **Internet Browser** app for **Watches** and in **Companion App** for **Android** phones for transferring data.

- **Dev Skill**   Dhaka, Bangladesh
  Competitive Programming Trainer   (March, 2019 - present)
  Training and giving lectures on Programming, focusing on Data Structures, Algorithms and problem solving in beginner and advanced level. Teaching over 120 students in 4 batches.

ACADEMIC DETAILS

Exam	Department	Institute	Year	Result
B.Sc.	Computer Science & Engineering	University of Dhaka	01/15 to 01/19	3.36/4.0

HONORS & AWARDS

IEEE NSU Power Buzz Programming Contest 2018	Team : **DU_DudhBhaat**	Rank : **01**
ACM ICPC 2018 Regional (Dhaka Site, Bangladesh)	Team : **DU_Simplexity**	Rank : **06**
ACM NCPC 2018 (Bangladesh)	Team : **DU_Simplexity**	Rank : **08**
ACM ICPC Preliminary Round 2018 (Bangladesh)	Team : **DU_Simplexity**	Rank : **08**
GUB IUPC 2018	Team : **DU_Simplexity**	Rank : **14**
ACM ICPC 2018 Regional (Amritapuri site, India)	Team : **DU_PantaBhaat**	Rank : **18**

Codeforces (Online Judge)	Handle : **introverted**	Max Rating : **1904**
CodeChef (Online judge)	Handle : **sajib_only**	Max Rating : **2046**(5*)

PROJECTS (Personal)

- **AWAJ** (MERN Project) : *Node, Express, Mongo, SocketIO, React, Bootstrap, HTML, CSS, JavaScript, Github, Heroku.*
  Objective: It is a **social networking** platform focusing on **anonymous message** sending. Some key features are, **Global Live messages**, **Reaction**, **Sharing** in other social media sites, **Polls** etc. It is under development phase currently. Feel free to pass a message at *https://awaj.herokuapp.com/sajibonly*.

- **K A J K A M** (React Project) : *React, React Redux, Bootstrap, HTML, CSS, JavaScript, Github*
  Objective: A web app with the features to track and maintain tasks and progress of projects and collaborate with team members (like Trello app). Used **react-beautiful-dnd** for drag and drop features and browser local storage to store data. Deployed in **Github** with **github-pages** at *sajib21.github.io/kajkam/*.
  Github repo: *https://github.com/sajib21/kajkam*.

PROJECTS (Academic)

- **Vision Based Culture Specific Gesture Recognition** (Research Project) : *Python, Google Colab*
  Objective : Greeting gesture detection from images with **Deep Learning**. Used **Convolutional Neural Networks** with many functional layers. Experimented and compared results with various types of classifier. Our main goal was to detect greetings from pictures to produce a genuine and humble reply to end users. Trained with a dataset of 500+ images and final Prediction Accuracy was **80**%. Google Colab: *https://tinyurl.com/y88jybd4*.

- **ESchool** (Web Engineering Course Project) : *HTML, CSS, JavaScript, PHP*
  Objective: A web platform to practice and compete in a huge collection of topic wise questions. Questions are categorized by subjects and chapters. A **dynamic difficulty** attribute kept for each question, updates with the ratio of successful and total submissions. Submissions are recorded in the database to provide a global rank list. Github repo: *https://github.com/MesbahTanvir/Eschool-WebProject*.

- **Spell Checker & POS Tagger** (Natural Language Processing Course Project) : *Python*
  Objective: It is a spelling checking & Parts of Speech tagging program. We used basic NLP theorems and algorithms such as **Naive Bayes Theorem** and variants, **Hidden Markov Models**, **Viterbi Algorithm** etc.

- **Assist Me** (Software Design Pattern Course Project) : *Java, Android, SQLite*
  Objective: A Java-android app which provides the functionality of Diary, Alarm, Reminder and To-Do List. Improved the software design by implementing design patterns including **Strategy**, **Singleton** and **Observer** patterns. Github repo: *https://github.com/sajib21/AssistMe*.

- **Flappy Fisa** (OOP Course Project) : *Java, Java Swing*
  Objective: A version of the classical Flappy Bird game. Used the idea of gravity to control the Fisa (bird). Obstacles were created at random and speed and density of them increased with level. Github repo: *https://github.com/sajib21/Flappy-Fisa*.