

Al Hosain

processor(DSP)

- Email me on Indeed: [indeed.com/r/Al-Hosain/ffe1455da1749ad2](https://www.indeed.com/r/Al-Hosain/ffe1455da1749ad2)

I love solving programming problems. I have gained experience in problem solving by continuous practice and competitive contest participation. I have also learned good software engineering techniques and tricks from academia and previous software engineering role. I am seeking for a full time position where I can implement my knowledge as well as ameliorate it. As a software engineer my goal is always to find the best solution to a programming problem in terms of time, space and engineering designs.

WORK EXPERIENCE

processor(DSP)

Samsung Research Institute - December 2012 to August 2015

Bangladesh.

Provided software solution to custom built digital signal Electronic processor(DSP). Main role was writing optimized procedure using System Level ARM NEON SIMD. Also ported linux kernel to custom platform using Design device tree approach. Configured media framework(OpenMAX) for custom platform.

Linux kernel Ported linux kernel for camera system on chips(SoC). Configured porting into u-boot, ram file system(INITRAMFS), BusyBox etc. Developed test FPGA scenarios for secure digital IO (SDIO) and DVFS module in MicroC/OS III.

Chat ON, the IM Configuring the code base for regional version releases. Contribution of Samsung to feature upgrade and code quality enhancement. Also solved Mobile critical issues with the code base before releases.

Testing Tool A test tool built in Java which can generate test cases automatically. Development for Designing the database model and user interface were my main roles. Chat ON I also developed the report generation module for the software.

Awards and Achievements

- Highest cgpa achiever in the first year of undergrad
- Classified as expert problem solver based on programming contest held among employees globally at Samsung Research Institute, Bangladesh
- Stood among top 5 teams several times in National Collegiate Programming Contest(NCPCs)
- Solved 400 ACM problems in Uva Online judge
- Solved problem and participated contests at various online judges like Codeforces, TopCoder, Project Euler etc

EDUCATION

M.Sc in Mining Massive Datasets

George Mason University
May 2017

Bachelor in Computer Science

Chittagong University of Engg
December 2012

ADDITIONAL INFORMATION

Technical Skills

Programming

c, c++, java, python, php

Languages

Machine Learning and

Hadoop, Spark, NUMPY, SkLearn, matlab

Big Data

Assembly, OS and arm assembly, x86, microc/os, linux SoC, trace32, codeviser,
Embedded System carbon SoC designer

Web Tools html, css, javascript

oop, sdlc, software design pattern, OpenGL, OpenCV, git, svn,

Others

Perforce

Github Github profile link

LinkedIn LinkedIn profile link