

# Rozana Alam

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- 5+ years of working experience as a **Software Developer** in the research institutes and startups with **C++ & Java**
- Have a **Master's degree** in **High Integrity Systems** which gives the skills in **complex Safety Critical Systems**
- Strongly motivated to work in the field of development and production of systems where skills can utilize skills.

## EDUCATION

**M.Sc Computer Science (High Integrity Systems)** Frankfurt/M, Germany | Mar 2013 - Oct 2020  
FRANKFURT UNIVERSITY OF APPLIED SCIENCE

**M.Sc Computer Science and Engineering** Dhaka, Bangladesh | Dec 2009 - Dec 2012  
NORTHSOUTH UNIVERSITY

**B.Sc Honours Computer Science and Engineering** Dhaka, Bangladesh | Feb 2002 - Dec 2007  
NORTHER UNIVERSITY

## WORK EXPERIENCE

**SOFTWARE ENGINEER(REMOTE)** | Bulldozer R & D Dhaka, Bangladesh | Oct 2020 – Till date

- Create a **prototype** for a 3D printer's Desktop Software Application
- Part of requirement gathering, design and testing team.
- an application to consume **Rest APIs** in **Qt Application**
- Working with **Networks** to fetch **HTTP Data**
- Working with the **File System** and also using **Model View Architecture**
- Tools : **C++**, **Qt**

**GRADUATE ASSISTANT** | FH FRANKFURT Frankfurt/M, Germany | Jun 2020 - Sep 2020

- Scholarship received as a Graduate Assistant from German Academic Exchange Service(DAAD).
- **Text Data Analysis** and **Data visualize** with **Python** libraries such as **matplotlib**, **seaborn**
- Text Classification based on multiple sentiment of text
- Used machine learning and deep learning models, achieved best accuracy with Bert\_base\_uncased model
- Used **Gantt chart** for project schedule and Agile process management.
- Tools: **Python**, **Google Co-lab**.

**RESEARCH ASSISTANT** | FH FRANKFURT Frankfurt/M, Germany | Oct 2015 - Oct 2018

- Developed a third party transport system application
- Responsible for the **Software analysis** and **UML diagram design**
- Implementation of algorithm, Developed end-to-end application from front-end to back-end
- Collaborated with the research team in planning and committed to documentation of each process
- Implement each steps of the software application with the team in agile and result findings
- Tools: **Magidraw**, **Eclipse Platform**, **Java SQL**, **html/CSS**.

**TEACHING ASSISTANT** | FH FRANKFURT Frankfurt/M, Germany | Oct 2015 - Oct 2018

- **C++ Object Oriented Programming**
- **JAVA Object Oriented Programming**
- **Mathematics Update** and

- System Theory and Modellings

## **SOFTWARE ENGINEER | JR. Traders**

Dhaka, Bangladesh | Dec 2009 – Dec 2012

- Software Development done for Real Estate Management system.
  - Software Development for Primary School management system
  - Design and Developed Hotel Reservation Management System
- Tools: **JAVA**, **netbeans**, **mysql**, **phpmyadmin**, **xampp server**.

## **LECTURER | Cambrian College**

Dhaka, Bangladesh | Oct 2010 – Dec 2012

- Computer Science lecturer for **Algorithm**, **Software system Design**, **Testing**

## **LECTURER | Sreenagar Govt. College**

Sreenagar, Bangladesh | Jun 2008 – Oct 2010

- Computer Science lecturer for **Data Structure**, **Database Management System**

## **SOFTWARE ENGINEER INTERN | Islamic Bank LTD.**

Dhaka, Bangladesh | Jun 2007 – Oct 2007

- Studied Online Banking infrastructure, Assisted Database Analysis, **designed** and **developed** a part of software to make existing banking software application more extensible using **Oracle**

## SKILLS

Programming Languages: **C++**, **Java**, **Python**

Frameworks: **Django**, **Qt**

Databases: **PostgreSQL**, **SQL**, **MySQL**

Development tools: **VisualStudioCode**, **Eclipse**, **MagicDraw**, **Jupyter Notebook**

Technology: **AWS**, **Docker**, **Git**, **LaTeX**, **Agile methodology** **Application life cycle management (ALM)**

## LANGUAGE SKILL

English C1, German A2, French A2, Bengali Native

## PROJECTS

### **INSULIN PUMPING WEB APPLICATION**

**JAVA**, **ANGULARJS**, **POSTGRES SQL**, **EDRAW MAX**

The simulation of an insulin pump, which tracks blood sugar and is able to inject insulin (or glucagon) if it detects a positive (or negative) rate of change of blood sugar.

### **FALL DETECTION MOBILE APPLICATION**

**ANDROID STUDIO**, **JAVA**

Developed a software critical mobile application, used mobile sensors to detect a fall of the person and notify to the emergency contact.

### **TEXT CLASSIFICATION**

**PYTHON**, **NLP**, **NUMPY**, **PANDAS**, **KERAS**, **TENSOR-FLOW**, **WORD CLOUD**

Classification of Data based on Sentiment of Text using Machine Learning and Deep Learning. Data Analysis and finally achieved best result with Sentiment for Bert model positive 90.29%

### **USHR SYSTEM**

**PHP**, **MYSQL**, **HTML**, **CSS**

“USHR system” is a database software that integrated two different databases used direct access method and data integration via mediator method individually.

### **WORD GENERATOR**

**PYTHON**, **C++**

Implement an algorithm that can generate a list of 96 words. Every word should be created using six (6) characters in total, all of which are to be picked from a four-letter alphabet consisting of A, C, G and T.