

## Md. Aminul Islam

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[Skype](#), [LinkedIn](#), [Twitter](#)

### RESEARCH INTERESTS

- Computer Vision
- Software Engineering
- Natural Language Processing

### EDUCATION

**B.Sc in Computer Science and Engineering** July 2014 to October 2018  
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh  
CGPA: 3.57 out of 4.00

**Higher Secondary Certificate** July 2011 to August 2013  
Notre Dame College, Dhaka, Bangladesh  
GPA: 5.00 out of 5.00

### RESEARCH EXPERIENCE

#### Scene Reconstruction From Multiple Static CCTV Cameras

Undergraduate Thesis, Manuscript in Preparation

Supervisor : [Dr. Md. Monirul Islam](#) Collaborator : [Anwar Hossain](#)

**Tools :** MATLAB, SURF Features, Object Detection & Tracking Algorithm, Image Segmentation, Image Matting, Polyfit

- proposed a system that can present information of a human or an object to user by analyzing videos taken from multiple static CCTV cameras from area of interests
- developed a prediction algorithm for predicting the movement of the input object in the place of defective or unavailable camera using the objects previous or next velocities in different cameras
- can recognize the input objects from different cameras with movement prediction in the place of defective or unavailable camera

Thesis book is available [HERE](#)

### WORK EXPERIENCE

**Software Engineer**  
**Ridmik Labs, Dhaka, Bangladesh**

November 2018 to present

- **Boitai Android Application :**
  - worked for developing eBook reader with digital library throughout the application lifecycle and working for continuous research and development
  - performed research for the security(standard encryption and decryption) of the books of an user in the app

**Tools :** Android Studio, Java, Kotlin, Java Native Interface, C, JavaScript, HTML, CSS, SQL, XML

- **Boitai iOS Application :**

- worked for the whole development of eBook reader with digital library
- performed research for the security(standard encryption and decryption) using iOS keychain for the books of an user in the app

**Tools :** Xcode, Swift, Objective-C, C++, JavaScript, HTML, CSS, GRDB, Keychain, StoryBoard

• **Ridmik Keyboard Android :**

- working for the continuous development of the keyboard

**Tools :** Android Studio, Java, Kotlin, C

• **Bangla Article Summarizer :**

- performed research on making a Bangla article summarizer
- worked for developing Bangla article summarizer after performing research

**Tools :** Python, NLTK, Clustering Algorithm, Bangla POS(Parts of Speech) Tagger

MAJOR PROJECTS    **Android Stay Safe Application :**    April 2017 to June 2017

- reporting for crimes, crime alert, connecting with nearby police station, friends from user side
- verification for reported crime, connecting police with victims, marking area as danger prone from police side

**Tools :** Android Studio, Java, Firebase, Google Map API, SQL, Firebase Cloud Messaging  
[Github Code and More Details](#)

**Multivariate Stock Price Prediction :**    July 2018 to August 2018

- developed a model which can predict the starting price for next day share market based on its previous data

**Tools :** Keras API, Tensorflow Backend, LSTM, one year share market data for training  
[Github Code](#)

**Online Examination Web :**    November 2016 to December 2016

- developed a web application from which students can give practice and final exams on both MCQ and descriptive type questions, teachers can upload questions, check answer scripts

**Tools :** JSP Servlet, Java, Oracle  
[Github Code](#)

**Rapid Roll Android :**    May 2016 to June 2016

- developed a rapid roll game with high scores and different themes

**Tools :** Android Studio, Accelerometer, Java, Canvas  
[Github Code](#)

**Online Examination desktop :**    November 2015 to December 2015

- developed a desktop application from which students can give MCQ exams, see marks of different subjects, teachers can upload questions

**Tools :** JavaFx, Socket Programming, Java, Files  
[Github Code](#)

All projects can be found [HERE](#)

## SKILLS

**Programming Languages :** Java, Swift, Python, C, C++, Kotlin, Objective-C, Assembly(80X86)

**Scripting Languages :** JavaScript, HTML, CSS, MATLAB, Shell Scripts

**Mobile Application Development :** Android, iOS

**Database :** Oracle, SQL

**Tools & Others :** Keras, Tensorflow, NLTK, Google Map API, Google Vision API, Firebase, JNI(Java Native Interface), JavaFX,  $\text{\LaTeX}$