

## 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**

Jul. 2014 to Oct. 2018

Bangladesh University of Engineering and Technology(BUET), Dhaka, Bangladesh

CGPA : 3.57/4.0 (Major : 3.6/4.0, Last 3 terms(58 credits) : 3.85/4.0)

### RESEARCH EXPERIENCE

#### **Scene Reconstruction From Multiple Static CCTV Cameras**

Nov. 2017 to Oct. 2018

Undergraduate Thesis, [Full Thesis Book](#)

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

Tools : MATLAB, SURF(Speeded Up Robust 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

### WORK EXPERIENCE

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

Nov. 2018 to present

##### • **Boitai Android Application**

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

- 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

##### • **Boitai iOS Application**

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

- 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

##### • **Ridmik Keyboard Android**

Tools : Android Studio, Java, Kotlin, C

- working for the continuous development of the keyboard

##### • **Bangla Article Summarizer**

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

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

##### • **Ridmik Account Kit Library**

Tools : Android Studio, Java, XML, Xcode, Swift, StoryBoard, Keychain

- worked for developing Ridmik Account Kit Library(used for logging into any Ridmik app) for both android and iOS application

[More Deatils](#)

ACADEMIC  
PROJECTS  
(SELECTED)

**Android Stay Safe Application :**

Apr. 2017 to Jun. 2017

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

- 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

**Multivariate Stock Price Prediction :**

Jul. 2018 to Aug. 2018

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

- developed a model which can predict the starting price for next day share market

**Online Examination Web :**

Nov. 2016 to Dec. 2016

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

- 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

**Online Examination desktop :**

Nov. 2015 to Dec. 2015

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

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

INDEPENDENT  
PROJECTS  
(SELECTED)

**Rapid Roll Android :**

Aug. 2016 to Sep. 2016

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

- developed a rapid roll game with showing top scores, different themes, multiple lives and increased game speed over time

**Car Racing Game :**

Mar. 2016 to Apr. 2016

Tools : Unity 3D, C#, [Github Code](#)

- developed a small car racing game which has android, iOS and desktop version

**Android Notebook :**

Dec. 2015 to Jan. 2016

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

- developed a notebook application from which user can save, edit and delete one's writings in the notebook

[All Projects and Details](#)

SELECTED  
COURSEWORK

- Artificial Intelligence
- Machine Learning
- Digital Image Processing
- Pattern Recognition
- Software Engineering & Information System Design
- Computer Graphics

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,  $\LaTeX$