

Md. Aminul Islam

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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, Dhaka, Bangladesh
CGPA: 3.57 out of 4.00
Higher Secondary Certificate Jul. 2011 to Aug. 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), [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

[More Deatils](#)

MAJOR PROJECTS	Android Stay Safe Application : Apr. 2017 to Jun. 2017 Tools : Android Studio, Java, Firebase, Google Map API, SQL, Firebase Cloud Messaging, Github Code and More Details <ul style="list-style-type: none"> 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, one year share market data for training, Github Code <ul style="list-style-type: none"> developed a model which can predict the starting price for next day share market based on its previous data
	Online Examination Web : Nov. 2016 to Dec. 2016 Tools : JSP Servlet, Java, Oracle, Github Code <ul style="list-style-type: none"> 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
	Rapid Roll Android : May 2016 to Jun. 2016 Tools : Android Studio, Accelerometer, Java, Canvas, Github Code <ul style="list-style-type: none"> developed a rapid roll game with high scores and different themes
	Online Examination desktop : November 2015 to December 2015 Tools : JavaFx, Socket Programming, Java, Files, Github Code <ul style="list-style-type: none"> developed a desktop application from which students can give MCQ exams, see marks of different subjects, teachers can upload questions
All Projects	
SELECTED COURSEWORK	<ul style="list-style-type: none"> Artificial Intelligence Machine Learning Digital Image Processing Pattern Recognition Software Engineering & Information System Design Operating System
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