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(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
- **Boitoi 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
- **Boitoi 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

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

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