MD. Fayaz BinHossen

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RESEARCH INTEREST

Machine Learning, Artificial Intelligence, Mobile Computing, Natural Language Processing, Optical Character Recognition and Empirical Software Engineering

EDUCATION

Rajshahi University of Engineering and Technology   **Rajshahi, Bangldesh**
BSc in Computer Science GPA: 3.25/4.0   *Graduated on: October 2016*

STANDARDIZED TEST SCORE

International English Language Testing System (IELTS) on 19th July 2021

Overall	Reading	Writing	Speaking	Listening
7.5	8.5	7	7	6.5

Graduate Research Examination (GRE) - 13th September 2021

Total	Quantitative	Verbal	Analytical
312	164	148	3.5

JOB EXPERIENCES

Monstarlab   **Mohakhali, Dhaka**
Software Engineer   *May 2019*
- Mobile Application development (Android, Flutter, IOS)

Synesis IT Ltd   **Kazi Nazrul Islam Ave, Dhaka**
Software Engineer   *May 2018 - Apr 2019*
- Payment Gateway, Mobile Application development(Android)

Hyper Systems Limited   **Banani, Dhaka**
Embedded Programmer   *Nov 2016 - Apr 2018*
- Vehicle Tracking Systems, Live Traffic Monitoring and Control Systems, Automation of Public Transportation Systems

PROJECTS

AncoTrans
- Developed an App AncoTrans that allows them to send trip to driver, track trip and live chat with driver

Misumi
- Developed an App for this e-commerce

GeneLife
- Developed an App that helps user to test DNA

ekPay
- Developed a payment gateway system which connects all the banks in Bangladesh
- Developed an App that allows user to pay all kind of government bills

Myradar Tracker
- Developed a vehicle Tracking Systems
- Developed an app to monitor and control vehicle

RadioG Music app
- Music streaming service.
- Payment gateway integration.

Other projects
- Also worked on Mitsukoshi, Kollective, Danduli and other projects.

Technical Skills

Technical Skills: Android, IOS, Java Spring
Language: Java, Kotlin, C++, Python, Swift
IDE: Android Studio, Xcode
Agile Tools: JIRA, Redmine

Analytical Problem Solving

- CodeForces
- LightOj
- Gained second position in RUET CSE-2012, participated ACM-ICPC preliminary contest in Dhaka Region-2014, 2015

Research Description

Undergraduate Thesis Title: Optical Character recognition for Bangali text using frechet distance and Neural network

Abstract: The thesis presents an optical character recognition approach especially for Bengali offline printed characters. Sample training data scanned, using modest scanner or from camera is first translated as gray-scale pixel representation. The entire recognition system is divided into two sections such as training and recognition. Both section include image acquisition, pre-processing and feature extraction. Pre-processing steps that follows are skew angle detection and correction, noise removal, line, word and character separation. Then comes binarization of the image and then take the binary data and scale it to 60x70 pixels. Then using the concept of Discrete Frechet Distance and Dynamic Time Wrapping" minimum distance between two given character is calculated. Finally using multi layer perception algorithm with one hidden layer each character is trained and recognized.

Awards

- Best Employee" award of Synesis IT and Hypersystems couple of time and Mountain Mover", Best Employee" award in Monstarlab
- Technical scholarship in RUET for outstanding result 4 times between 2013 and 2016