Md. Alamin

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EDUCATION

Bachelor of Science in Computer Science & Engineering,
Bangladesh University of Engineering and Technology (BUET).
2014-2018
CGPA**:** 3.57/4.00
CGPA in last two years: 3.79

RESEARCH INTERESTS

Computational Biology and Bioinformatics, Genomics, Gene Expression, Genome Sequencing,

Genome Mapping, RNA Analysis, Protein Structure.

RESEARCH EXPERIENCE

Worked on the topic "**Alignment Free Phylogenetic Tree Estimation**" as undergraduate thesis under the supervision of **Dr. Md. Shamsuzzoha Bayzid**, Assistant Professor, Department of CSE, BUET. The goal of the thesis is to conduct an extensive comparison and investigate the relative strengths and weaknesses of various existing alignment free methods of Phylogenetic Tree Estimation and to develop an improved method.

PROFESSIONAL EXPERIENCE

June, 2019 – Present	Lecturer, Department of CSE, Southeast University, Dhaka, Bangladesh.
November, 2018 – May, 2019	Lecturer, Department of CSE, Bangladesh Army University of Engineering and Technology, Natore, Bangladesh.

SKILLS

Programming Language: Python, C++, C, Java, Assembly

IDE: PyCharm, CodeBlocks, Microsoft Visual Studio, Eclipse

Database: Oracle

Analysis Tool: MATLAB

Version Control Tool: GIT

Operating Systems: Linux, Windows

PROJECTS

Facial Expression Detection (2018)   **Python**

- A machine learning project for detecting the seven facial expressions - Angry, Disgust, Fear, Happy, Sad, Surprise, Neutral.
- Transfer learning has been used on **ResNet152**.
- Project Details**:** https://github.com/MDAlamin13/Facial-Expression-Detection-

Arduino Based Assistant (2017)   **Arduino**
- A digital system design project.
- It can measure date, time and some environmental variables like temperature, humidity etc.
- Using the information, the assistant will suggest some activities (eat food, watch a movie, to do list) to the user via both Wi-Fi terminal on user's android device and LCD display.
- Project Details: https://github.com/MDAlamin13/Arduino-Based-Project

Traffic Estimator (2017)   **AVR ATmega32, C**
- This system works on traffic and counts the number of vehicles on each segment of the roads.
- Based on the density of vehicles, it generates the traffic signals.
- Project Details: https://github.com/MDAlamin13/Trafic-Estimator

Service Hub (2017)   **Android Studio**

- A software development project.

- This software is mainly an e-commerce site.

- It will work as a bridge between users and technicians, who provides different types of domestic services like electric, sanitary, computer services and so on.

- Project Details: https://github.com/MDAlamin13/Service-Hub

Cricket Batting Record Management (2016)   **Oracle SQL and JSP**
- A database management project.
- The system takes input the batting part of the scorecard of a cricket match.
- Then it calculates and shows results and all batting records (Most runs, Most fours, Strike Rate, Average, Highest Run by a team etc.)
- Project Details: https://github.com/MDAlamin13/Cricket-Batting-management

Type Racer (2015)   **Java, JavaFX**
- A simple two players typing speed checker game.
- A car moves whenever a word is being typed correctly. The player whose car reaches the destination first will win the game.
- It will show the typing speed (words per minute) of each player.

Rapid Roll 2 (2015)   **C ++, I-Graphics**

- A simple game for moving a ball from one platform to another.

- Avoiding obstacles ensured the survival of the ball coping with the increased speed.

ACADEMIC HONORS

- Enlisted in the **Dean's List** of Bangladesh University of Engineering and Technology (Session 2016-17)
- Enlisted in the **Dean's List** of Bangladesh University of Engineering and Technology (Session 2015-16)
- Higher Secondary Certificate Scholarship, Dhaka Education Board, Bangladesh (2013)
- Secondary School Certificate Scholarship, Dinajpur Education Board, Bangladesh (2011)
- **First Runner-up** at Regional Mathematical Olympiad (2010)
- Junior Government Scholarship in Talent-Pool category (2008)
- Primary Government Scholarship in Talent-Pool category (2005)