MD. JAKARIA

✉ jakaria@cse.mist.ac.bd · ☎ (+88) 016-86-239998 · % jakariamd.github.io

🎓 EDUCATION

Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh   2014 – 2018
B.Sc in Computer Science & Engineering (CSE), CGPA: 3.88 out of 4
Thesis Title: *"eMed-DNA: Archiving Medical Records in DNA Sequence"*

Dhaka City College, Dhaka, Bangladesh   2011 – 2013
Higher Secondary Certificate, GPA: 5.00 out of 5

Brahmondi KKM Govt. High School, Narsingdi, Dhaka, Bangladesh   2009 – 2011
Secondary School Certificate, GPA: 5.00 out of 5

📕 RELEVANT COURSES

Artificial Intelligence, Machine Learning, Pattern Recognition, Algorithms, Basic Graph Theory, Database, Software Development, Discrete Mathematics, Mathematical Analysis for Computer Science

🔖 PUBLICATIONS

Journal Paper

- **Md. Jakaria,** Kowshika Sarker, Mostofa Rafid Uddin, Md. Mohaiminul Islam, Trisha Das, Rameen Shakur, Md. Shamsuzzoha Bayzid, "**eMED-DNA: An** *in silico* operating system for clinical medical data storage within the human genome." - Under review, bioRxiv 814830; doi: https://doi.org/10.1101/814830

Patent

- Rameen Shakur, Md Shamsuzzoha Bayzid, **Md Jakaria**, Kowshika Sarker, Mostofa Rafid Uddin, Md. Mohaiminul Islam, Trisha Das. "Method for encoding and storing patient medical data within the genome sequence of a patient." UK Patent Application No. 1901754.0, filed February 2019. Patent Pending.

📅 NOTABLE PROJECTS

Hardware & Software Design Project

Smart Music Cafe   2018

- Design and implementation of a wireless music system using Raspberry Pi 3
- Link: https://jakariamd.github.io/MusicCafe

Pong Game   2017

- A 2D game resembling table tennis using ATmega 32 and dot matrix controlled by hand gesture.
- Link: http://bit.ly/pping-pong

Website & Mobile Application For Badhan   2017

- An automated system management project developed for Badhan BUET zone.
- Link: https://github.com/jakariamd/Badhan-BUET

⚙ SKILLS

- Programming Languages: C = JAVA > C++ > Python > Matlab > Assembly > Shell Script
- Platform: Linux, Windows
- Development: Android, Web
- Database: MySQL, Microsoft Access

👥 EMPLOYMENT

Military Institute of Science and Technology (MIST), Mirpur Cant, Dhaka-1216   2019 – Cont
Lecturer,   Department of CSE

Eastern University, Dhanmondi, Dhaka-1205   2018 – 2019
Lecturer,   Faculty of E&T

Bangladesh University of Engineering & Technology (BUET) , Dhaka-1000   2017–2018
Undergraduate Research Student,   Department of CSE

Research topics:

- DNA digital data storage
- Protein Secondary Structure Prediction (PSSP)
- Mining EHRs: Predicting ICU Re-Admission (Ongoing project)

☁ TEACHING EXPERIENCES

Eastern University

- **Fall 2018:** CSE-103 Structured Programming

Military Institute of Science and Technology

- **Spring 2019:** CSE-291 Computer Programming Language
- **Fall 2019:** CSE-217 Theory of Computation
- **Fall 2019:** CSE-121 Introduction to Computer Science and Programming Language

♡ AWARDS AND HONOURS

- *1st Prize*, Award on Student Poster Presentation, NSysS-2017   Dec. 2017
- *University Merit*, Bangladesh University of Engineering & Technology (BUET)   2015
- *University Stipend*, Bangladesh University of Engineering & Technology (BUET)   2015–2017
- *Dean's List Award*, Bangladesh University of Engineering & Technology (BUET)   2015–2017
- *National High School Merit Scholarship*, by the Government of Bangladesh   2013
- *National Elementary School Merit Scholarship*, by the Government of Bangladesh   2011

ℹ MISCELLANEOUS

- LinkedIn: https://www.linkedin.com/in/jakariamd/
- GitHub: https://github.com/jakariamd