# Md. Toukir Ahmed

## Personal Data

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| Date of Birth: | 12 September, 1994 |
| Present Address: | Road # 09, Monsurabad, Pabna - 6600, Bangladesh |
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## Objective

To work in a competitive friendly environment where I can apply my knowledge to solve meaningful problems for betterment of human lives and prove myself worthy for the position in the organization.

## Research Interests

Graph Theory, Networking , Machine Learning, Artificial Intelligence, Data Mining , Bioinformatics

## Education

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| 2012- 2017(february) | Bachelor of Science (B.Sc.) in Engineering<br>*Department of Computer Science and Engineering (CSE),*<br>**Bangladesh University of Engineering and Technology (BUET),**<br>Dhaka-1000, Bangladesh<br>CGPA:3.67/4.00 |
| 2011 | Higher Secondary Certificate (HSC)<br>**Notre Dame College,** Dhaka<br>GPA:5.00/5.00 (in all subjects) |
| 2009 | Secondary School Certificate (SSC)<br>**Bogra Zilla School,** Bogra<br>GPA:5.00/5.00 (in all subjects) |

## Computer Skills

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| Language: | C, C++ ,C#, Python, Java, Assembly, PL/SQL |
| Analysis Tool: | R, Weka |
| Framework: | OpenGL,Django |
| Database: | Oracle |
| Operating System: | Windows, Linux, Mac |
| Hardware: | ATmega32 - Atmel Corporation |
| Scripting: | LaTeX, HTML, Shell Script(Linux) |
| Simulator: | Cisco Packet Tracer, Proteus |

## Undergraduate Thesis

I have completed my undergraduate research in Bioinformatics under Dr. M. Sohel Rahman, Professor (Department Head), Dept of CSE, BUET. My research topic is **REGAd$^3$p$^+$: An Improved Predictor for Accessible Surface Area with Regression and Optimized by Metaheuristics**. In this work, we present REGAd$^3$p$^+$, an improved version of Regularized Exact Regression with Polynomial kernel of degree 3 (REGAd$^3$p) by introducing three new features. We further optimize the REGAd$^3$p model with different metaheuristic algorithms and compared the performance thereof in terms of MAE and PCC.
**Span:** March, 2016 - February, 2017

## Completed Projects

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| HEARTS: | This is a typical card game where a person plays with 3 opponents (computer).The game is challenging as the opponents always try to win.It was designed in OpenGL (iGraphics) and written in C. |
| MCQ SERVER: | A Server-client socket programing based project with GUI using Java. |
| EShopper: | EShopper is a database driven website both in pc and android platform where shopping can be done on internet.It was developed in Python Django. |
| APPOINTMENT SCHEDULER: | A oracle based system designed in C# to schedule appointment of the client effectively and hierarchally. |
| TETRIS: | A hardware based game implemented on LED-Matrix using ATmega32 micro-controller. |
| COMPILER PROJECT: | A compiler was designed using Lex (FLEX) and Bison to generate lexical analyzer and parser on Linux system. Language C was used to implement these and to compile, Terminal of Ubuntu was used. |
| SNAKE: | A simple game developed in Assembly Language(MIPS).Emu8086 was used to simulate. |
| 4-BIT $\mu p$: | A 4 bit micro-processor with a basic instruction set and an associated interpreter, based on the MIPS architecture. Its main features include single stage pipelining, micro programmed control unit and separate data and instruction RAM. |
| NETWORKING PROJECT: | Improvement in End-to-End delay Computation Of AODV Protocol Using NS2 |
| AI PROJECTS: | Different Machine learnig and Pattern Recognition based projects on Id3, KNN, Naive Bayes ,ANN ,Clustering were completed using java and python. |
| GRAPHICS PROJECT: | 3D modeling, shading and reflections of objects were done in Graphics project. |

## PUBLICATIONS

**RBSURFpred: Modeling protein accessible surface area in real and binary space using regularized and optimized regression** (Published in Journal of Theoretical Biology of ELSEVIER, 14 March 2018) Link of the paper.

## SCHOLARSHIPS AND AWARDS

- Dean's List Award for academic excellence in level-4 (session:2014-15).
- National Education Board Scholarship (General Grade) in SSC.
- National Education Board Scholarship (General Grade) in Junior Scholarship Examination.

## WORK EXPERIENCE

- Working as Lecturer of CSE in Pabna University of Science and Technology (PUST) since $3^{rd}$ February, 2018.
- Worked as Lecturer of CSE in Bangabandhu Sheikh Mujibur Rahman Science And Technology University (BSMRSTU).
- Worked as Lecturer of CSE in Bangladesh University of Business and Technology (BUBT).

## CO CURRICULAR ACTIVITIES

- Active member of Notre Dame Chess Club, Notre Dame Science Club, BUET Chess Club
- Champion in the annual chess competition of Notre Dame College (2010)
- Runner-up in CSE-Fest (2012) badminton tournament
- Runner-up in Intra-varsity badminton tournament

## REFERENCES

**Dr. M. Sohel Rahman**
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