MD ARMANUZZAMAN

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Education

Bachelor of Science (B. Sc.) in Computer Science and Engineering   March 2013 to April 2017
Khulna University of Engineering & Technology, Khulna, Bangladesh
CGPA: 3.49 (Out of 4.0) | Class Position: 14th (Out of 60) | Last 60 credits 3.85(Out of 4.0)

Research Interest:

Cybersecurity, cryptography, Software security, Data Mining, Cloud Computing, Quantum cryptography, Machine Learning.

Research Experience:

Title: A Reliable and Efficient Data Transmission protocol Using Quantum Key Distribution
Summary: Objective of this thesis is to provide reliable key exchange and to transmit data efficiently**.** This thesis is based on presenting a way to transmit data within two parties with   the ability to detect any eavesdropper. While traditional cryptosystems such as RSA,DES,AES etc. have become vulnerable Quantum Key Distribution(QKD) provides a platform for secure data transmission. The experiment is primarily based on two theorems, "Heisenberg uncertainty theorem" and "no-cloning theorem" both is relate to QKD for secure data transmission.

Publications:

Authors: Md. Armanuzzaman, Kazi Md. Rokibul Alam, Md. Mehadi Hassan, Yasuhiko Morimoto

Title: A secure and efficient data transmission technique using quantum key distribution.

 Published In: 4th International Conference on Networking, Systems and Security (NSysS) 2017.

Work Experience:

 Software Engineer, BJIT Group.Ltd.

Technical Skills

- **Programming Language :** C, C++ [4 years], Java (Core and J2EE) [2 years]
- **Scripting Language :** Python [6 months]**,** ASP [6 months],JAVASCRIPT
- **Web Technologies :** HTML, CSS, ASP (Basic level) [6 months], Spring MVC, Sturts MVC, JQuery.
- **DBMS :** Oracle, MySQL [6 months], Hibernate, eMatrix.
- **Software Version Control** : Git , Github
- **IDE :** Code Blocks, Eclipse, Android Studio, Visual Studio, Spider, intellij, Netbeans.

Competitive Programming:

Online Programming Platforms:
- **UVA OJ**   : Solved **100+** problems **(** Handle : Tomal.kuet **)**
- **Codeforces :** Solved **180+** problems   (Handle: Tomal) | Max. Rating -1348, Participated ~40 contests
- **LightOJ**   : Solved **35+** problems (Handle: MD.Armanuzzaman Tomal)

Awards and Achievements:
- **University Faculty Dean Award in the session 2015-16.**
- **Intra Batch Programming Contest 2014 (5st Position).**

Projects:
- **Esho_Shikhi (এস শিখি)** | **Software Development Project at KUET (2014)**

A desktop application that makes children education more interesting.
Language: Java | Tools: Eclipse

- **File-Share| Web Development Project at KUET (2014)**

A website to share files with group members and to avoid unwanted access.
Language: ASP | HTML | CSS | JavaScript | Jquery| Tools: Visual Studio.

- **Wireless PC Controller | Software Development Project at KUET (2016)**

An android application to operate various functions of computer through Wi-Fi network.
Language: Java | Tools: Android Studio, Eclipse

- **Car shooting game | Computer Graphic Laboratory Project at KUET (2016)**

An attractive 3D game.
Language: C++ (OpenGl) | Tools: CodeBlocks

Languages:
- **Bangla:** Native
- **English: Fluent.** (TOEFL iBT test Scores Reading:26, Listening:29, Speaking:20, Writing:27 Total:102, Test Taken on 29th September 2018)

Aptitude Test Scores:
- **GRE:** Quantitative Reasoning: **166** (91 percentile), Verbal Reasoning: **148** (38 percentile). Total: **314**.
Analytical Writing: **3.5** (41 percentile). Test taken on 21 May 2018

Related Coursework:

- **Computer Basics and Programming**
- **Object Oriented Programming**
- **Theory of computation**
- **Computer Networks**
- **Database Systems**
- **Artificial Intelligence**

- **Data Structures and Algorithms**
- **Numerical Methods**
- **Information Security and Control**
- **Computer Graphics**
- **Computer Architecture and Organization**
- **Machine Learning**

Notable Volunteering and Membership:

- **SGIPC – Special Group, Interested in Programming Contest** (May 2013 to Present)

  Conducted a number of workshops on C Programming and Algorithms. Arranged and volunteered in several programming contests within the campus.
- **Bit2Byte.KUET - An Organization to Encourage Student in Software Development** (MAY 2013 to Present)

Conducted a number of workshop on software development.
- **Dream – Voluntary Blood Donation Society of KUET** (May 2013 to Present)

  Organized blood grouping campaign and managed blood for poor and helpless patients.
- **Event Management**
  - **National High School Programming Contest (NHSPC) (2015, 2016) Khulna.**
  - **Intra Department Idea Contest, KUET 2016.**