

# MD ARMANUZZAMAN

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## Contact

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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)**

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## Research Interest:

Machine Learning, Deep Learning, Computer graphics, Computer vision, Natural Language Processing, Artificial intelligence.

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## 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 are related to QKD for secure data transmission.

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## 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:** 4<sup>th</sup> International Conference on Networking, Systems and Security (NSysS) 2017.

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## Work Experience:

**Software Engineer**, BJIT Group.Ltd.

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## 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, Struts 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.

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## 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)
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## Awards and Achievements:

- **University Faculty Dean Award in the session 2015-16.**
  - **Intra Batch Programming Contest 2014 (5<sup>st</sup> Position).**
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## Projects:

- [Esho Shikhi \(এস শিকি\)](#) | **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

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## Languages:

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

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## Related Coursework:

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|--|---|
| • <b>Computer Basics and Programming</b> | • <b>Data Structures and Algorithms</b>         |
| • <b>Object Oriented Programming</b>     | • <b>Numerical Methods</b>                      |
| • <b>Theory of computation</b>           | • <b>Information Security and Control</b>       |
| • <b>Computer Networks</b>               | • <b>Computer Graphics</b>                      |
| • <b>Database Systems</b>                | • <b>Computer Architecture and Organization</b> |
| • <b>Artificial Intelligence</b>         | • <b>Machine Learning</b>                       |
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## **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.**