

## OBJECTIVE

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My objective is to pursue MSc. degree in the field of Mobile Systems, Mobile Computing and Mobile services. Extensive research is going on in this field that makes us wonder what our next frontier will be. I believe I have acquired a good understanding of the basic concepts of Mobile Computing system through my undergraduate courses and my professional career. I am very keen to be part of a research group that solves problems of not only today but tomorrow also. This extra ordinary experience will excel my skills and expertise to make me a researcher who can solve problems with a new perspective beyond traditional disciplinary boundaries.

## RESEARCH INTEREST

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- Mobile Computing
- Cloud Security
- Cloud Computing
- Software Engineering
- Software Design Pattern.

## EDUCATION

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- BSc in Computer Science and Engineering from Bangladesh University of Engineering and Technology, BUET 2004 – 2009. CGPA 3.52 out of 4.
- Higher Secondary School Certificate (2004) from Notre Dame College, Dhaka Bangladesh. CGPA 4.8 out of 5.
- Secondary School Certificate (2002) from Government Laboratory High School, Dhaka Bangladesh. CGPA 4.88 out of 5.

## RESEARCH EXPERIENCE

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- **B.Sc. Thesis:** “Development of Huffman Tree Data Structure For Better Compression”  
**Advisor:** Dr. Md. Mostofa Akbar  
**Thesis Paper Link:** Thesis@AmarjitDatta.pdf

In computer science and information theory, Huffman coding is an entropy encoding algorithm used for lossless data compression. Since its very invention in 1952, it has been widely used for text, image and video compression. For last 50 years, many investigations have been performed on Huffman coding by various researchers. They presented many techniques to improve basic Huffman algorithm. These significantly reduces memory requirement. In this research, we have directed our work for the analysis of a new memory efficient data structure for static Huffman tree. Here a memory efficient representation Huffman tree is presented and various experiments are performed on it to measure its performance. This new memory efficient representation increases the compression ratio of Huffman Coding. This algorithm reduces both memory requirement and compression time.

<b>Senior Software Engineer</b>	<b>Cefalo AS</b>	<b>April 2014 to present</b>
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**System Architect Online**                      **Vizrt Thailand LTD.**                      **April 2012 to April 2014**

**Senior Consultant / PS**                      **Vizrt Bangladesh**                      **April 2010 to March 2012**

<b>Software Engineer</b>	<b>Code Crafters Intl Ltd</b>	<b>Jan 2010 to April 2010</b>
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**Junior Software Engineer**                      **IECB Intl Ltd**                      **Dec 2008 to Sept 2009**

## SELECTED PROJECTS

**Singapore:** Expat Living Singapore, Hong Kong, Ex-magazine

**India:** ABP Live, ABP News, Ananda Bazar, ABP Majha

## Australia: Network Ten

## Philippines: Solar News, Solar Sports Desk

## United Kingdom: Global Blue

### Thailand: Thai PBS

**Programming Languages:** Java, J2EE, C, C++, C#

**Web Technologies:** JSP, PHP, ASP, HTML, HTML5, CSS, CSS3, Bootstrap 2/3, JavaScript,

**Servers:** UNIX, Windows Server

**Middle Tier:** Web services, REST, SOAP.

**Caching:** Varnish, Nginx. MemCached.

**Database:** MySQL, Oracle SQL, SQL Lite, Microsoft SQL Server.

**Distributed Cloud System:** Amazon Web Services, Load Balancer, Cloud front, Akamai.

- IBC 2012 – Amsterdam, Netherlands
- Broadcast Asia 2012, 2013 – Singapore

- SMPTE 2013, Australia

## AWARDS

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- Media President Award 2013, VIZRT APAC as a symbol of employee of the year.
- Dhaka education board scholarship for HSC 2004.
- Dhaka education board scholarship for SSC 2002.

## REFERENCES

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- Dr. M. Kaykobad  
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