

Resume of Mohammad Abul Khaer

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- OBJECTIVE** Want to be a 'world class' researcher in the field of Computer Science and Engineering by developing something new that is theoretically perfect as well as practically significant and want to utilize my skills, enthusiasm and experiences for the betterment and advancement of humankind.
- EDUCATION** **B.SC, (Computer Science & Engineering)** March 2007
Khulna University of Engineering & Technology, Khulna, Bangladesh
- CGPA: 3.35/ 4.00
 - Last 2 year GPA- **3.59**/4.00
 - Thesis: Analysis of Design Patterns for Reusable Object Oriented Frameworks and A Comparative Study with Quality Metrics
 - Thesis Supervisor: Professor M.M.A Hashem (mma_hashem@hotmail.com)
- Higher Secondary Certificate (HSC),** September 2002
Wali Nawaz Khan College, Kishoreganj, Bangladesh
- **Result:** 1st Division (82.9% marks)
- Secondary School Certificate, (SSC),** July 2000
Kishoreganj Government Boys High School, Kishoreganj, Bangladesh
- **Result:** 1st Division (84.8% marks)
- RESEARCH INTEREST** Software Engineering and Security, Web Technology, Human Computer Interaction, Knowledge Management, Data Mining, Distributed Systems
- PUBLICATIONS**
- Rank-Based Quality Measurement of Software Systems in Standardized Source Code, Proc. 10th Int'l Conf. on Computer & Information Tech, 2007, Bangladesh.
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4579434
 - An Empirical Analysis of Software Systems for Measurement of Design Quality Level Based on Design Patterns, Proc. 10th Int'l Conf. on Computer & Information Technology, 2007, Bangladesh.
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4579432
 - Normalization Approach for Metric Based Software Quality Measurement, Int'l Conference on Computer & Communication Engineering, 2008, Malaysia.
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4580583
 - On Use of Design Patterns in Empirical Assessment of Software Design Quality, Int'l Conf. on Computer & Communication Engineering, 2008, Malaysia.
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4580582
- HONORS AND AWARDS**
- KUET merit scholarship , 2003 - 2007
 - Dhaka Education Board Scholarship for result in H.S.C examination, 2000-2002
 - Junior Scholarship in talent pool , 1998, Dhaka Board
- IELTS** Overall 6.5/9, Reading - 6.5, Listening - 6.5, Speaking - 6.5, Writing - 6

WORK EXPERIENCES

▪ **Software Engineer** (July 2010 - Present) Vizrt, Dhaka, Bangladesh
Vizrt (<http://www.vizrt.com>) creates leading-edge content production tools for the digital media industry. I am leading the Widget Framework team.

Key Responsibilities:

- Perform Widget Framework (WF) related research and development, developing of WF on the top of Escenic Content Engine.
- Developing of reusable building blocks, widgets, layouts and developing of a controller framework for controlling behavior of an website based on Escenic Content Engine.
- Organizing sprint planning meeting, as a scrum team developer practicing scrum in team, attending daily standup meetings, communication with product owner on regular basis.
- Participation in various meetings to improve product, communication with other teams, helping customer through forum, support tickets.
- Write product documentation, write code based on predefined coding standard.

Technologies: Java, JSP, JSTL, Servlet, Web Service, MySQL, HTML, HTML5, CSS, Javascript, jQuery, Perforce, Jira, IntelliJ Idea, Maven, Bash Script etc

Contact: Øyvind Løkling (olo@vizrt.com), Product Owner and System Architect

▪ **System Engineer** (January 2008- July 2010) , Institute of Information & Communication Technology(IICT) (<http://buet.ac.bd/iict>) , BUET, Bangladesh
IICT provides a platform for teaching, learning and research in Information and Communication Technology (ICT) that will contribute to industrial and infrastructural development, economic growth and social prosperity. I worked in the BUET Institutional Information System (BIIS) project.

Key Responsibilities:

- Requirement collection from stake holders
- Analysis of requirements and design of UML diagrams, database and program from the requirements
- Development of online application system, billing system, medical center management system, BRTC (Bureau of Research Testing and Consultation) management system.
- Training and client end support of stakeholders

Technologies: Struts, JSP, Oracle, SQL, Hibernate, JSP, HTML, CSS, Javascript, jQuery , Eclipse , SVN

Contact: Professor Abul Kashem Mia, Former Associate Director of IICT, kashem@cse.buet.ac.bd

COMPUTER SKILLS

Languages: Java, C,C++,C#, Unix Shell Programming

Database: Oracle, SQL Server, MySQL, Postgres, XML

Hardware: EPROM Programming, Assembly 8086, Micro Controller

Design Experience: Design Patterns, UML, MS Visio, Rational Rose, ER Studio

Web Development: PHP, ASP.NET, JSP, JavaScript, jQuery, CSS, Ajax, HTML

IDE: Eclipse, Netbeans, IntelliJ Idea, Visual Studio, Dreamweaver.

Frameworks: Struts, Hibernate, Spring

SOFTWARE PROJECTS

▪ **BUET Institutional Information System (BIIS)** (<http://biis.buet.ac.bd>)

BIIS is a project that automates all sections of BUET like academic, administrative, financial, research and consultancy in a center place in web. During the registration period student can register online and can take course. They can also view their results in online. Lots of utilities like gas bill, electricity bill, phone bill, medical charge, auto bills are integrated to payroll system through BIIS.

Platform: Java, Struts, Oracle, Hibernate, iBatis, JSP, HTML, CSS, Javascript

▪ **BUET Online Application System (OAS)**

This is an online application system for students to get admitted into the undergraduate, graduate courses. Qualification is checked during application period. Applicants can choose preferred department. Payment fee for application was processed through mobile SMS. Online application system was integrated with mobile service provider for payment system.

Undergraduate OAS : <http://ugadmission.buet.ac.bd>

Graduate OAS: <http://pgadmission.buet.ac.bd>

Platform: Java, Struts, Oracle, JSP, HTML, CSS, Javascript

▪ **MCQ Model Test** (<http://mcqmodeltest.com>)

This is an online MCQ model test site for junior, secondary, higher secondary level students of Bangladesh. BCS preliminary model test can also be taken. Applicant's can give model test by purchasing pin code. They can select module and subject they are interested to take on. They can pause the examination and can take later. Top performers of tests are listed in the site on subject basis.

Platform: PHP, MySQL, HTML, CSS, Javascript, jQuery

▪ **Jukto Front** (<http://www.juktofront.org>)

Juktofront is an alliance of several progressive parties in Bangladesh. Juktofront.org is an electronic platform for citizens to promote progressive candidates. Using this site citizens can be member of Jukto Front. They can select candidate for counselor election of Dhaka city. Members of this site can vote candidates for nomination of counselor election.

Platform: PHP, MySQL, HTML, CSS, Javascript, jQuery

▪ **Khoab** (<http://www.khoab.com>)

Khoab is a site for recharging mobile balance online. User doesn't need to go to recharge point. Khoab is integrated with a payment gateway. Recharge amount will be deducted from user's bank account.

Platform: PHP, MySQL, HTML, CSS, Javascript, jQuery

▪ **Network and Data Link Layer Implementation**

Stop & wait network protocol was simulated using Java. Packet was send through the serial ports to multiple computers connected in network by serial port. Aim of this simulation was in-depth understanding of computer network layers.

Platform : J2SE, Java Communication API

ACHIEVEMENTS

- Participated various national and international programming contest
- Founding coordinator of English Consortium Club, KUET
- Organizer of National IT Conference 2005, KUET
- Organizer of various programming contest held at KUET
- Trainer & Volunteer, Informatics Olympiad, Regional Contest, 2005, Khulna.
- Organizer, Re-Union of KUET CSE students, 2006.

**PROGRAMMING
ACHIEVEMENTS**

- Best Programmer Award (2002 Batch), Khulna Univ. of Eng. & Tech, 2005
- Member of Champion Team, Khulna Univ. of Eng. & Tech., 2005
- Honorable mention, National Programming Contest, Bangladesh
- Runner Up, Rajshahi Univ. of Eng. & Tech. Programming Contest, 2005
- Honorable mention, ACM ICPC, Regional Contest, 2005, Dhaka, Bangladesh.

REFERENCES

▪ M.M.A. Hashem, Professor
Department of Computer Science and Engineering
Khulna University of Engineering and Technology
Khulna-9203, Bangladesh
Email:- hashem@cse.kuet.ac.bd, mma_hashem@hotmail.com

▪ Md. Abul Kashem Mia, Professor
Department of Computer Science and Engineering
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Dhaka-1000, Bangladesh
Email:- kashem@cse.buet.ac.bd