

# Md Dalwar Hossain Arif

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## OBJECTIVE

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Seeking to build on strong research skills gained through studies so far as a research associate in a leading research center. I also aim to complete my PhD in concerned research area with my utmost dedication and hard work.

## EDUCATION

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### Internet Technology and Architecture

October 2016 — Present

*Technische Universität Berlin*

- **Major Subjects:** Database Technology, Wireless Networking Lab, Digital Community, Operating System Design
- **Minor Subject:** Innovation & Entrepreneurship Thesis.

### Internet Technology and Architecture

September 2015 — July 2016

*Pierre-and-Marie-Curie University, Paris, France*

- **Major Subjects:** Digital Communications, Computer Networking, Telecommunication Systems and Networks, Internet Routing, Wireless and Mobile Computing, Network Design and Modeling
- **Minor Subjects:** Innovation & Entrepreneurship Basics, Business Development Lab

### Bachelor of Science in Computer Science and Information Technology

January 2008 — October 2011

*Islamic University of Technology*

- **Final Year Thesis:** Personalized Web Recommendation Combining User-centered Collaborative Technique with URL Weighting.
- **Thesis Abstract:** Web usage mining has become very popular in various business areas for learning more about the users' browsing behavior and recommending the perfect product in which the user is interested in. At present there are many systems that recommend for the users on web usage mining, but most of the systems suffer from inappropriate scalability, which would lead to very weak recommendations. In this paper we proposed a new technique that gives emphasis on page view weighting based on transaction timing and building a session pattern graph for each session. This technique provides the scope for better scalability and also provides effective number of recommendations with remarkable accuracy.
- **Major:** Computer Science
- **CGPA:** 3.74 out of 4.00
- **1st Class** - ranked 17th out of 37
- **Result Publication Date:** 26 October, 2011

*Comilla Cadet College*

- **Main Subjects:** Mathematics, Physics, Chemistry, English, Bangla
- **Group:** Science
- **CGPA:** 5.00 out of 5.00
- **Result Publication Date:** 26 August, 2007

Secondary School Certificate Examination

2003 — 2005

*Comilla Cadet College*

- **Main Subjects:** Mathematics, Higher Mathematics, Chemistry, Physics, Geography, History, Social Studies, Religion, English, Bangla
- **Group:** Science
- **CGPA:** 5.00 out of 5.00
- **Result Publication Date:** 09 July, 2005

## RESEARCH INTERESTS

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- Internet Technology and Architecture
- Complex Network Modeling
- Data Security and Cryptography
- Web Usage Mining & Web Architecture Design
- Social Network Data Mining
- Secure Cloud Computing
- Efficient Database Architecture Design

## PUBLICATIONS

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[1] **Md Dalwar Hossain Arif**, Sofi A H M Ullah, K M Habibullah and Md Ali Al Mamun. Article: Personalized Web Recommendation Combining User-centered Collaborative Technique with URL Weighting. International Journal of Computer Applications 63(2):13-18, February 2013. Published by Foundation of Computer Science, New York, USA.

# PROFESSIONAL PROJECTS

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- [1] Custom Software extension project for finding worst network entity. **JAVA, Oracle 10g** - 2012
- [2] Database schema re-design for SIEMENS 2G network data calculation and KPI (Key Performance Indicator) generation. - **Oracle 10g** - 2012
- [3] Custom software development project for SIEMENS 2G network data calculation. **JAVA, Oracle 10g** - 2012
- [4] New Database design for ERICSSON 2G network data and KPI generation. -**Oracle 10g** - 2012
- [5] Custom software development project for ERICSSON 2G network data calculation. **JAVA, Oracle 10g** - 2012
- [6] IBM TNPMW (Tivoli netcool performance manager for wireless) project implementation for mass level wireless KPI data integration. - **Linux Shell Scripting, Oracle 10g, JAVA** - 2012
- [7] IBM Explore project implementation to view network entity on customized map. **Google Map, JAVA, Map Info, Oracle 10g, MS Excel, XML** - 2012
- [8] Customized software to measure network cell site distance and easy access web portal. **Python 2.7, PHP5, HTML5, CSS3, MySQL** - 2013
- [9] Software development project for finding out 'Average Handover Time' for daily basis. -**Python 2.7, PHP5, HTML5, CSS3, MySQL** - 2013
- [10] 2G KPI merge project for different vendors (HUAWEI, SIEMENS, NOKIA, ERICSSON) and easy access web portal. - **Python 2.7, PHP5, HTML5, CSS3, MySQL**- 2013
- [11] Software development project for cluster wise reporting tool. **Python 2.7, SMTP, JAVA, MySQL**- 2013
- [12] 3G KPI integration software for daily, weekly, monthly report generation. -**Python 3.3, MySQL**- 2014
- [13] Database design project for 3G Data and KPI formula implementation. -**Oracle 10g** - 2014
- [14] Customized software extension for 3G data calculation in modified environment. -**Python 3.3.2, MySQL**- 2014
- [15] ftp access control and file recovery with specific arguments. -**Python 3.3.2** - 2014
- [16] Software project for automated KPI calculation for specific network cluster and easy access web portal - **Python 3.3.2, MySQL, HTML5, PHP5, CSS3, Java Script**- Ongoing
- [17] Astelia 2G Network Optimization tool (www.astellia.com) implementation and up-gradation project. - **ASTELLIA** - 2012
- [18] Astellia 3G Data analysis tool for complete performance report generation. -**Python 3.4.2, MySQL, PHP5** - 2015

## WORK EXPERIENCE

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Quobyte GmbH

December 2016 — March 2017

*Software Developer (Working Student)*

- Developing QUOBYTE test environment
- Testing 3rd party software integration

Banglalink Digital Communications Ltd.,  
Bangladesh

July 2013 — Present

*QoS Associate Engineer*

- Monitor, Maintain and trouble shoot all (100+) astellia ([www.astellia.com](http://www.astellia.com)) servers.
- Monitor, Maintain, Administrate Oracle 10 g databases for in house tool.
- Develop custom software as per department's need.
- Develop web based applications for internal use.
- Develop database schema and create efficient databases.
- Manage Oracle 10g, mySQL databases for daily, weekly, Monthly report generation.
- Create KPI (Key Performance Indicator) formula and Implement the formula inside database procedures to generate accurate network KPI.
- Edit and Extend custom software as per demand.
- Develop, maintain, extend report generation software for whole network.
- Create scheduled report generation software and automated data check software for contentiously changing RAW KPI data.
- Administrate Trending and aggregation servers for network KPI values (Visual representation of network entity in real time).
- Develop software to optimize the workload of data monitoring servers.
- Maintain several ftp servers and develop custom software to explore and manipulate ftp server's data.
- Create network topology for data monitoring software.
- Generate cluster wise network report with custom made software.
- Maintain Linux and Windows based data monitoring servers.
- Generate RAW KPI values for network entity from real time servers.
- Maintain the accuracy of RAW data for cell phone network entity.

*Performance Junior Engineer*

- Monitor, Maintain and trouble shoot all (100+) astellia (www.astellia.com) servers.
- Monitor, Maintain, Administrate Oracle 10 g databases for in house tool.
- Develop custom software. (Python, Java)
- Edit and Extend custom software as per demand.
- Manage Oracle 10g, mySQL Databases for daily, weekly, Monthly report generation.
- Develop, maintain, extend report generation software for whole network.
- Maintain several ftp servers and develop custom software to explore and manipulate ftp server's data.
- Trouble shooting problems for - Linux, Windows based servers and also for ftp servers.
- Create network topology for data monitoring software.
- Implementation of project for TNPMW (www.ibm.com)
- Generating RAW KPI values at any cost from live data monitoring system

BDCOM Online Limited, Bangladesh

October 2010 — November 2010

*Internship, BD COM Online Limited*

- IP Based Telephony and Network Routing Protocols
- Basic Routing Algorithms and Network Troubleshooting
- Routing tables and Routing paths

## ACADEMIC PROJECTS

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- [1] Student Hall Seat Management System - **C**
- [2] Student Information Management System - **Visual Basic, MS Access**
- [3] System Analysis on - Cafeteria Inventory and Food Allocation System and Class Routine Management System
- [4] Cafeteria Inventory and Food Allocation Management System - **Visual Basic, MS Access**
- [5] Online full duplex chat application with enhanced emoticon facility - **JAVA**
- [6] Student Result Processing System - **JAVA, MS Access**
- [7] Swap website for Swapping Goods and Materials - **PHP5, HTML, CSS3, Java Script, MySQL**
- [8] Online Inventory, Order, Complex Billing management system - **PHP5, HTML5, CSS3, Java Script, MySQL**

## COMPUTER SKILLS

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**OS** - Linux/Unix, Windows, DOS

**Programming** - **Python**, C/C++, VB.net, Java, C#

**IDE** - VisualStudio.NET, Dev C++, Eclipse, NetBeans

**Database** - Microsoft Access, MySQL, Oracle 10g

**Typography** - LaTeX, Microsoft Office, Open Office

**Web** - FrontPage, PHP5, HTML5, CSS3

## SCHOLARSHIPS

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**2016** - EIT Digital Scholarship on Internet Technology and Architecture (TU Berlin, Berlin, Germany)

**2015** - EIT Digital Scholarship on Internet Technology and Architecture (UPMC, Paris, France)

**2008** - OIC (Organisation of Islamic Cooperation) full free student scholarship at IUT (Islamic University of Technology) - Duration 04 years

**2007** - Higher Secondary School Certificate Examination Scholarship. - Duration 04 Years

**2005** - Secondary School Certificate Examination Scholarship. - Duration 02 Years

## LANGUAGE

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**Bangla** - Native

**English** - Fluent - IELTS Overall Score - 6.5

**French** - Beginner (A1)