

MD SAEED SIDDIK

Profession: Lecturer, University of Dhaka

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University of Dhaka, Dhaka-1000, Bangladesh

RESEARCH EXPERIENCES

I have been working on software testing, refactoring and analysis research where I experimented how software are developed and tested efficiently. I have completed M.Sc. in Software Engineering, containing the highest marked thesis dissertation on Software Test Case Prioritization under the supervision of Professor Dr. Kazi Muheymin-us-Sakib, IIT University of Dhaka in June 2015. I have proposed a new test case prioritization scheme using information from different phase of Software Development Life Cycle named as Software Requirements, Design Diagrams and Source Code. I was the first research student of IIT DU Optimization Research group, where I was working on software design migration to enhance modularity and manageability. I have successfully completed my B. Sc. in Software Engineering thesis, which was published at IEEE and awarded best student paper award at ICCIT'13. I am a member of IEEE (ID: 94159542) and the Counselor of IEEE Computer Society Dhaka University Student Branch Chapter. I am also a member of ACM SIGSOFT (ID: 0407075)

TEACHING EXPERIENCES

Lecturer

Institute of Information Technology (IIT),
University of Dhaka

- SE2016: Object Oriented Programming
- CSE504: Web Technology
- CSE401: Operating System

November 2015 –
Present



Guest Lecturer

IIT, Jahangirnagar University

- IT-5205 Software Project Management & Quality Assurance

July 2015 –
November 2015



FELLOWSHIP

- The ministry of Post, Telecommunication and Information Technology, peoples republic of Bangladesh, under **ICT Division Fellowship No - 56.00.0000.028.33.019.14-54**

CONSULTANCY

- Consulting for developing plagiarism detection software using existing archive of digital agricultural theses of Bangladesh, UGC - HEQEP, CP-3655. **(May 2015 – June 2016)**
- Consulting for developing knowledge portal project of Bangladesh Agricultural Extension Network (BAEN) fund by IFAD. **(May 2017 - September 2017)**

AWARD

- Awarded IIT Academy Excellency **Gold Medal Award** 2015 honored at the 50th University of Dhaka Convocation.

PUBLICATIONS

1. Md. Abdur Rahman, Md. Abu Hasan and **Md. Saeed Siddik**. "Prioritizing Dissimilar Test Cases in Regression Testing using Historical Failure Data" in *International Journal of Computer Applications* Vol. 180(14), pp 1-8, January 2018.
2. Md. Samsuddoha, **Md. Saeed Siddik**, Md. Selim and Shah Mostafa Khaled. "Empirical Approach to Validate Heuristic Algorithms for Procedural Programming to Object Oriented Design Migration" in *International Journal of Advanced Research*, Vol. 5(9), pp 38-45, September 2017 (ISSN 2320-5407).
3. Md. Abu Hasan, Md. Abdur Rahman, and **Md. Saeed Siddik** "Test Case Prioritization Based on Dissimilarity Clustering using Historical Data Analysis." *International Conference on Information Communication and Computing Technology*, Springer, May 2017, Pages: 267-281.
4. **Md Saeed Siddik**, Md Selim, Alim Ul Gias, and Shah Khaled "Migrating to Object Oriented Architecture from Procedural Paradigm: A Variable Neighborhood Search Based Approach" in *JU Journal of Information Technology*, Vol. 5, pp 23-34, 2016, ISSN 2227-1279.
5. **Md Saeed Siddik**, and Kazi Sakib. "RDCC: An Effective Test Case Prioritization Framework using Software Requirements, Design and Source Code Collaboration." in *17th Inter. Conf. on Computer and Information Technology (ICCIT'14)*, IEEE, 22-23 December 2014.
6. Md Selim, **Md Saeed Siddik**, Tajkia Rahman, Alim Ul Gias, and Shah Mostafa Khaled. "Approximating Object based Architecture for Legacy Software Written in Procedural Languages using Variable Neighborhood Search." *8th Int. Conf. on Software, Knowledge, Intelligent Management and Applications (SKIMA'14)*, IEEE, 2014 [**Runner up Best Student Paper Award**]
7. **Md. Saeed Siddik**, Alim Ul Gias, Md. Selim, Shah Khaled, Kazi Sakib, "A Direction of Migrating Procedural Paradigm to Object Based Architecture by forming Cluster of Functions using Local Search Heuristics", 3rd Int. Conf. Informatics, Electronics & Vision (ICIEV'14), IEEE, April 2014.
8. Mirza Rehenuma Tabassum, **Md. Saeed Siddik**, Mohammad Shoyaib, Shah Mostafa Khaled, "Determining Interdependency Among Non-functional Requirements to Reduce Conflict", 3rd International Conference Informatics, Electronics & Vision (ICIEV'14), IEEE, April 2014.
9. Md. Iftekharul Alam Efat, **Md. Saeed Siddik**, Mohammad Shoyaib, Shah Mostafa Khaled, "Feature Prioritization for Analyzing and Enhancing Software Reusability", 3rd International Conference Informatics, Electronics & Vision (ICIEV'14), IEEE, April 2014.
10. Jobaer Islam Khan, Alim Ul Gias, **Md. Saeed Siddik**, Md. Habibur Rahman, Shah Mostafa Khaled, Mohammad Shoyaib, "An Attribute Selection Process for Software Defect Prediction", 3rd Int. Conf. Informatics, Electronics & Vision (ICIEV'14), IEEE, April 2014.
11. **Md Saeed Siddik**, A. U. Gias, and S. M. Khaled, "Optimizing software design migration from structured programming to object oriented paradigm," in 16th International Conference on Computer and Information Technology (ICCIT'13), IEEE, December 2013. Pages 1-6. [**BEST STUDENT PAPER AWARD**]
12. Md. Selim, **Saeed Siddik**, Alim Ul Gias, Shah Mostafa Khaled, and M. Abdullah-Al-Wadud, "A Genetic Algorithm for Software Design Migration from Structured to Object Oriented Paradigm" in 8th International Conference on Computer Engineering and Applications (CEA14), Spain. Jul 23, 2014, Pages 187–192.

M. SC. THESIS

Md Saeed Siddik, "Test Case Prioritization using Software Requirements, Design and Code Collaboration", Institute of Information Technology, University of Dhaka, 124 pages, June 2015, Supervisor: Dr. Kazi Muheymin-Us-Sakib. (Containing highest marks in thesis defense)

B. SC. THESIS

Md Saeed Siddik, "Local Search for Optimizing Software Design Migration from Structured Programming to Object Oriented Paradigm", 81 pages, December 2013 Supervisor: Shah Mostafa Khaled, (Containing highest marks in thesis defense).

EDUCATIONAL BACKGROUND

Masters of Science in Software Engineering (MSSE)

IIT, University of Dhaka, Bangladesh, July 2015

CGPA 4.00 (out of 4) (1st Position)

Bachelor of Science in Software Engineering (BSSE)

IIT, University of Dhaka, Bangladesh, December 2013

CGPA 3.87 (out of 4) (1st Position)

Higher Secondary Certificate Exam in Science Group

Chuadanga Govt. College (under Jessore Education Board)

Passing Year 2008 with **GPA 5.00** (out of 5)

Secondary School Certificate Exam in Science Group

V. J. Govt. High School, Chuadanga (under Jessore Education Board)

Passing Year 2006 with **GPA 5.00** (out of 5)

PROFESSIONAL EXPERIENCES

Software Engineer

Orion Informatics Ltd

July 2015 – November 2015

1. Browser Based Editing for CRA Wiz

- New generation CRA Wiz software for Bank of America
- Using JavaScript, JQuery, C#, AngularJS

2. HMDA Wiz

- Automated Home Mortgage Disclosure Act (HMDA) application
- Using JavaScript, JQuery, C#,



Intern as Cloud Artisan

Panacea Systems Limited bd

January 2013 – June 2013

1. Prometheus

- Content filtering tools using python
- Python natural language toolkit (nltk) and analyze English corpus

2. Cloud-Niagara

- Tool for maintain openstack cloud Essex version



PROFESSIONAL TRAINING

- Workshop on Linear Algebra and Linear Programming (WLALP) 21-22 March 2014
- 'Windows 8 Metro apps' training by trained Microsoft Bangladesh 3- 5 Nov. 2012
- "Advanced Networking and ISP Setup" at Bangladesh Computer Council (BCC) focused on Proxy, DNS, Web & Mail Server, Network Security etc. in CentOS and RedHat platform 3 Dec. 2011 - 14 May 2012

ADMINISTRATIVE EXPERIENCES

- **Assistant House Tutor** March 2016 – Present
Amar Ekushey Hall, University of Dhaka
- **Advisor** January 2016 - Present
Dhaka University Student Association of Chuadanga (DUSAC)
- **Microsoft Student Partner (MSP)** April 2012 – Feb 2013
Microsoft, Bangladesh

MAJOR PROJECTS

1. Digital Archive of Agricultural Thesis and Journals May 2015 – November 2015

Role: Lead Developer

Funded: UGC - HEQEP

Description: Creating a Digital Archive of Agricultural Thesis and Journals (daatj.saulibrary.edu.bd) and uploading softcopy of existing thesis of several agricultural universities (currently more than 5000 documents).

2. Plagiarism Detection Software using Local Archive May 2015 – June 2016

Role: Consultant

Funded: UGC - HEQEP, CP-3655

Description: Develop plagiarism detection software using existing local archive of digital agricultural theses of Bangladesh, which has been deployed at Sher-e-Bangla Agriculture University.

3. IIT DU Website June 2014 – January 2015

Role: Lead Requirement Engineer

Funded: University of Dhaka

Description: Gather all requirements from academic and administration section, affiliated colleges, resident areas, faculty and stuffs etc. Analyze all requirements and produce a full requirements specification document for Dhaka university website.

REFERENCES

Prof. Dr. Kazi Muheymin Us Sakib

Professor,

IIT University of Dhaka

Email: sakib@du.ac.bd

Tel: 01730051232 (Mob.)

Prof. Dr. Mahbubul Alam Joarder

Professor,

IIT University of Dhaka

Email: joarder@du.ac.bd

Tel: 01755000011 (Mob.)

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