**MD SAEED SIDDIK**

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**Google Scholar**: [https://scholar.google.com/citations?user=bPzEj3IAAAAJ&hl=en](https://scholar.google.com/citations?user=bPzEj3IAAAAJ&hl=en%20)

**Researchgate** : <https://www.researchgate.net/profile/Saeed_Siddik>

Room No 303, IIT Building,

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

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| **Lecturer**  **Institute of Information Technology (IIT),**  **University of Dhaka**   * SE2016: Object Oriented Programming * CSE504: Web Technology * CSE401: Operating System | **November 2015 –**  **Present** | C:\Users\saeed\Google Drive\Saeed Siddik\CV\dhaka university.png |
| **Guest Lecturer**  **IIT, Jahangirnagar University**   * IT-5205 Software Project Management & Quality Assurance | **July 2015 –**  **November 2015** | **C:\Users\saeed\Google Drive\Saeed Siddik\CV\jahangirnagar university.jpg** |

# 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 MostafaKhaled, “*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

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| 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  1. **HMDA Wiz**  * Automated Home Mortgage Disclosure Act (HMDA) application * Using JavaScript, JQuery, C#, | C:\Users\saeed\Google Drive\Saeed Siddik\CV\orion informatics.png |
| 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  1. **Cloud-Niagara**  * Tool for maintain openstack cloud Essex version | C:\Users\saeed\Google Drive\Saeed Siddik\CV\pancea.png |

# Professional Training

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| * 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

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

# 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

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| **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.) |