

# DELWAR ALAM

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## RESEARCH (Work) MOTIVATION

Certified Information Systems Auditor with a strong background in research and application security, over 8 years of experience working with both the public and private sectors. I do love to work with application security and research. I have been involved with Web application security, Encryption technologies, Machine learning and Blockchain technology with Security Researcher proficient in online security research planning execution and maintenance experience. About 10 research papers on cyber security have been published in various foreign journals and conferences. As a security analyst, I have been working with different organization in security assessment.

## EDUCATION (upto)

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Aug 2016 – Sep 2018   | Master of Science (M.Sc.) in Cyber Security<br><u>IU International University of Applied Sciences</u> , Bad Honnef, Germany                   |
| Jan 2011 – April 2015 | Bachelor of Science (B.Sc.) in Software Engineering<br><u>Daffodil International University</u> , Dhaka, Bangladesh<br>CGPA: 2.81 out of 4.00 |

## PROFESSIONAL EXPERIENCE

|                                      |                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Feb 2018 – Present<br>36 hours/week  | Cyber Security Assessor and Security Researcher<br><u>BugsBD Limited</u> , Dhaka, Bangladesh                           |
| Sep 2017 – Present<br>36 hours/week  | Organizing Committee<br>WMSCI (World Multiconference on Systemics, Cybernetics and Informatics), Orlando, Florida, USA |
| May 2016 – Jan 2018<br>36 hours/week | Cyber Security Analyst<br><u>IQSA Soft</u> , Dhaka, Bangladesh                                                         |
| Jan 2014 – Apr 2016<br>36 hours/week | Cyber Security Engineer<br><u>Soft IT Security</u> , Dhaka, Bangladesh                                                 |

## AWARDS AND CERTIFICATIONS

|               |                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------|
| August 2022   | Certified Information Systems Auditor (CISA), ISACA<br>Validity: 19 August 2022 to 31 January 2026<br>Certification Number: 221897398 |
| December 2019 | Certified Ethical Hacker (CEH), EC-Council<br>Validity: 09 December 2019 to 08 December 2022<br>Certification Number: ECC9506871432   |

## RESEARCH AND PUBLICATIONS

|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Published in 2018<br>Ekushey Book Fair                                                                                                 | Co-Author of the book named “Hacking er Golokdhadha” published on “Ekushe Book Fair-2018” in Dhaka. This book contains texts/codes/logics on ethical hacking & cyber security.                                                                                                                                                            |
| Published in: 2017<br>International Conference on Consumer Electronics and Devices (ICCED)                                             | D. Alam, M. Zaman, T. Farah, R. Rahman and M. S. Hosain, "Study of the Dirty Copy on Write, a Linux Kernel memory allocation vulnerability," 2017 International Conference on Consumer Electronics and Devices (ICCED), London, 2017, pp. 40-45, doi: 10.1109/ICCED.2017.8019988.                                                         |
| Published in: Conference<br>WMSCI 2017 Secretariat                                                                                     | Farah, T., Shelim, R., Zaman, M., & Alam, D. Study of Race Condition: A Privilege Escalation Vulnerability. (Selected as the best paper in Cybernetics and Informatics, Florida, USA)                                                                                                                                                     |
| Published in: Conference<br>CSCEET2017; 02/2017                                                                                        | Zaman, M., Alam, D., Bhuiyan, T., & Farah, T. (2018). A Study of the Effects of Heartbleed Vulnerability in Bangladesh. International Journal of Cyber-Security and Digital Forensics, 7(3), 243-248.                                                                                                                                     |
| Published in: 2016 Sixth<br>International Conference on Digital Information and Communication Technology and its Applications (DICTAP) | T. Farah, M. Shojol, M. Hassan and D. Alam, "Assessment of vulnerabilities of web applications of Bangladesh: A case study of XSS & CSRF," 2016 Sixth International Conference on Digital Information and Communication Technology and its Applications (DICTAP), Konya, 2016, pp. 74-78, doi: 10.1109/DICTAP.2016.7544004.               |
| Published in: 2015<br>Fourth International Conference on Cyber Security, Cyber Warfare, and Digital Forensic (CyberSec)                | D. Alam, M. A. Kabir, T. Bhuiyan and T. Farah, "A Case Study of SQL Injection Vulnerabilities Assessment of .bd Domain Web Applications," 2015 Fourth International Conference on Cyber Security, Cyber Warfare, and Digital Forensic (CyberSec), Jakarta, 2015, pp. 73-77, doi: 10.1109/CyberSec.2015.23.                                |
| Published in: 2015<br>Fourth International Conference on Cyber Security, Cyber Warfare,                                                | T. Farah, D. Alam, M. N. Bin Ali and M. A. Kabir, "Investigation of Bangladesh region based web applications: A case study of 64 based, local, and global SQLi vulnerability," 2015 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE), Dhaka, 2015, pp. 177-180, doi: 10.1109/WIECON-ECE.2015.7443891 |

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|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| and Digital Forensic (CyberSec)                                                                                |                                                                                                                                                                                                                                                                                                                                           |
| Published in: 2015 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE)       | T. Farah, D. Alam, M. N. Bin Ali and M. A. Kabir, "Investigation of Bangladesh region based web applications: A case study of 64 based, local, and global SQLi vulnerability," 2015 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE), Dhaka, 2015, pp. 177-180, doi: 10.1109/WIECON-ECE.2015.7443891 |
| Published in: 2015 Second International Conference on Information Security and Cyber Forensics (InfoSec)       | D. Alam, T. Bhuiyan, M. A. Kabir and T. Farah, "SQLi vulnerabilty in education sector websites of Bangladesh," 2015 Second International Conference on Information Security and Cyber Forensics (InfoSec), Cape Town, 2015, pp. 152-157, doi: 10.1109/InfoSec.2015.7435521.                                                               |
| Published in: 2015 World Congress on Internet Security (WorldCIS)                                              | T. Farah, D. Alam, M. A. Kabir and T. Bhuiyan, "SQLi penetration testing of financial Web applications: Investigation of Bangladesh region," 2015 World Congress on Internet Security (WorldCIS), Dublin, 2015, pp. 146- 151, doi: 10.1109/WorldCIS.2015.7359432.                                                                         |
| Published in: 2015                                                                                             | Bhuiyan, T., Alam, D., & Farah, T. (2016). Evaluating the Readiness of Cyber Resilient Bangladesh. Journal of Internet Technology and Secured Transactions, 4(3), 405-415. DOI: 10.20533/jitst.2046.3723.2015.0051                                                                                                                        |
| Published in: 3rd International Conference on Advances in Computing, Electronics and Communication (ACEC 2015) | Alam, D., Farah, T., & Kabir, M. A. (2015, October). Exploring the SQL injection vulnerabilities of. bd domain web applications. In 3rd International Conference on Advances in Computing, Electronics and Communication (ACEC 2015) (pp. 10-11).                                                                                         |

[More research and publications.](#)

## TECHNICAL SKILLS

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Security                  | Vulnerability Assessor, Cyber Security Researcher, Web gateway, Penetration Testing, Red Team and Blue Team.                                                                            |
| Penetration Testing Tools | Metasploit, Nmap, SIEM, PAM, Nessus, Wireshark                                                                                                                                          |
| Programming Languages     | Knowledge of C, JavaScript, Python, PHP, Perl, MySQL                                                                                                                                    |
| Framework                 | Laravel, CodeIgniter, Django                                                                                                                                                            |
| Operating System          | Experience working in mixed Windows/Linux (Kali Linux, Red Hat Linux, Backtrack, Ubuntu), database and virtualized/physical server environments                                         |
| Technology                | Blockchain, Ethereum Tools: Solidity, Truffle, Ganache CLI, Ethereum Virtual Machine and Remix. Hyperledger Tools: Hyperledger Fabric and Hyperledger Composer, Access Control Language |
| IDE                       | MS Visual Studio, Eclipse, NetBeans, Android Studio, Dreamweaver, Eclipse with ADT, MATLAB                                                                                              |
| Security Management Tools | Nexpose, Archery (Open Source)                                                                                                                                                          |
| IT discipline             | Cloud security, Networks, applications design and development, Distributed computing, Active directory, IT security and business recovery.                                              |

## PROJECT PORTFOLIO

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|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assessment 2022 as a Lead Cyber Security Auditor | Organization: SOS Bangladesh<br>Project: Web Vulnerability Assessment and Penetration Testing<br>Providing an independent or internal review of security controls and information systems. Testing the safety and effectiveness of individual components of cybersecurity defences.                                              |
| Assessment 2021 as a Project Manager             | Organization: TallyKhata- Progoti System<br>Project: Web and Mobile Application Security Assessment<br>Manage a team of senior cyber security and information assurance professionals and work closely with management to discuss cyber security efforts.                                                                        |
| Assessment 2020 as a Network Security Specialist | Organization: Aamar Pay<br>Project: PCI Compliance<br>Design, implement and support network security architecture including firewalls, unified threat management, web filtering, web application firewall, email security, two factor authentication and VPN technology for TNP's customers both remotely and at their premises. |
| Assessment 2020 as a Security Analyst            | Organization: Sure Cash<br>Project: Vulnerability Assessment and Penetration Testing<br>Perform physical security assessments of systems, servers and other network devices to identify areas that require physical protection.                                                                                                  |

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|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assessment 2019 as a Vulnerability Assessor    | Organization: Daffodil International University<br>Project: Vulnerability Assessment and Penetration Testing<br>Performs assessments of systems and networks within the network environment and identifies where those systems/networks deviate from acceptable configurations.                                                                                 |
| Assessment 2018 as a Penetration Tester        | Organization: Prothom-Alo<br>Project: Web Vulnerability Assessment and Penetration Testing<br>Perform penetration tests on computer systems, networks and applications.                                                                                                                                                                                         |
| Assessment 2018 as a Cyber Security Specialist | Organization: Access to information in Bangladesh (A2i)<br>Project: Web and Mobile Application Vulnerability Assessment and Penetration Testing<br>Discovering vulnerabilities and risks in networks, software systems and data centres with ongoing vulnerability scans, monitoring network data, and ensuring hardware and software applications are updated. |
| Assessment 2017 as a Cyber Security Specialist | Organization: Computer Ease Limited<br>Project: Management Information System's (MIS) Vulnerability Assessment & Penetration Testing<br>Discovering vulnerabilities and risks in the Management Information Software Systems with ongoing vulnerability scans, monitoring network data, and ensuring hardware and software applications are updated.            |

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## CO-CURRICULAR AND SERVICE ACTIVITIES

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| Year 2015 – Present   | Co-Founder & Advisor<br>SofLab, Daffodil International University, Dhaka           |
| Year 2014 - Present   | Advisor<br>Software Engineering Club, Daffodil International University, Dhaka     |
| Year 2015 - Present   | Alumni Adviser<br>SWE ALUMNI ASSOCIATION, Daffodil International University, Dhaka |
| Year 2014 - Present   | Owner<br>SqliWiki, forum.sqliwiki.com                                              |
| Year 2015 – Year 2016 | Secretary<br>DIU ISACA Student Group, Daffodil International University, Dhaka     |

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## REFERENCE

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Professor Dr. Md. Ismail Jabiullah  
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