CURRICULUM VITAE

April 15, 2022

PERSONAL INFORMATION

MD SHAEDUL ISLAM
Date of Birth: 29.11.1993, Citizenship: Bangladesh
Address: 69 Rue de l'Alzette, L-4011, Esch-Sur-Alzette, Luxembourg Phone: (+352) 661386499, Email: md.islam.002@student.uni.lu
Personal Website: http://www.shaedul.github.io
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CURRENT POSITION

Feb. 2022-Present
Research Support
Under supervision: **Dr. Antonio Ken IANNILLO**
Team: **SEDAN**
SnT- Interdisciplinary Centre for Security, Reliability and Trust
University of Luxembourg

RESEARCH INTEREST

Privacy Preserving, Privacy by Design, Artificial Intelligence, Machine Learning, Cybersecurity, Internet of Things

EDUCATION AND DEGREES

Sep 2019-Jan 2022
Master in Information and Computer Sciences (MICS)
University of Luxembourg, Belval, Luxembourg
Dissertation: Privacy-Preserving Disease Risk Scoring Using Homomorphic Encryption
Contribution: Proposed a proof-of-concept for the privacy-preserving genomic disease scoring using Fully Homomorphic Encryption. With the help of the Microsoft SEAL library, I have implemented a use case simulation where a user sends encrypted genomic variants to an insecure remote environment (like a public cloud). All operations in this public environment are performed in the encrypted domain. Afterward, the user gets back and decrypts the results to find out the risk score for a specific disease.
Major Subjects: Algorithms and Public-Key Cryptography, Principle of Software Engineering, Software Engineering (DevOps), Algorithmic Decision Theory, Intelligent Systems – (Problem Solving, Agents and Reasoning, Information Retrieval and Learning), Intelligent Agents-II, Foundations of Computing, Machine Learning, Knowledge Discovery and Data Mining, Information Security Basics

Aug 2014-Feb 2018
B. Sc. in Computer Science & Engineering (CSE)
Port City International University (PCIU), Chittagong, Bangladesh
Dissertation: Proposed "an intelligent system for environment real monitoring with highly efficient and automatic way to measure vital environmental parameters" such as harmful gases, sound and water condition. The system sends a notification to the user before environment pollution about environment status with a possible solution to reduce.
Major Subjects: Structured Programming, Object Oriented, Programming, Database System, Data Structures and Algorithms, Computer Networks, Simulation & Modeling, Pattern Recognition, Artificial Intelligence

Sep 2009-Feb 2014
Diploma in Engineering in Computer Technology
Bangladesh Sweden Polytechnic Institute (BSPI), Kaptai, Bangladesh

PROFESSIONAL EXPERIENCE

May 2021-Dec 2021	Research Support Under supervision: Dr. Philippe VALOGGIA Research group: Privacy and Data Protection by Design Luxembourg Institute of Science and Technology (LIST) Website: https://www.list.lu
July 2020-Apr 2021	Research Assistant Under supervision: Dr. Vinu Gopal Department of Information and Computer Sciences University of Luxembourg
Feb 2020-June 2020	Application Developer Under supervision: Professor Nicolas Gulfi Department of Information and Computer Sciences University of Luxembourg
Mar 2018-Apr 2019	Research Assistant Under supervision: Engr. Shafait Ahmed Department of Electrical and Electronics Engineering International Islamic University Chittagong
Feb 2018-Oct 2018	Sr. Software Engineer Software Development, Easynet East Nasirabad, Chittagong, Bangladesh

PUBLICATIONS

Feb 2018	**Md. Shaedul Islam, "**An Intelligent System on Environment Quality Remote Monitoring and Cloud Data Logging Using Internet of Things (IOT)" IC4ME2-2018, IEEE Xplore (DOI:10.1109/IC4ME2.2018.8465667**)**
Nov 2018	**Md. Shaedul Islam and Rajib Mitra** "An Artificial Medical Platform of patient Monitoring and Prescribe the Health Status Using Wireless Sensor Network with Public Key Cryptography for Securing the Medical data" ICECCE-2018, Dhaka, Bangladesh, 22-24 November 2018
Dec 2021	"Privacy-preserving Polygenic Risk Scoring using Homomorphic Encryption" [submitted]

IMPLEMENTED PROJECTS

June 2020	A Big Data Analytical Overview of COVID-19, Submitted in University of Luxembourg
July 2017	University Management System. Best Project Award in 7th semester
Jan 2017	Blood Bank Maintenance System- Developed for Life Saver organization
Mar 2016	Online Order and Delivery System-Class assignment in 5th semesters
Feb 2016	School Management System- Developed for Omar Ghani primary School
	The code and documentation of several projects are shared on Github
	https://github.com/Shaedul/Shaedul_projects

COURSES AND TRAINING

27 Dec-6 Apr 2017	Title: Training on Web Application Development- Dot Net Institution: Bangladesh Association of Software and Information Services (BASIS) Institute of Technology & Management (BITM)

	Topics: Basic C#, OOP basics, Web Basics (HTML, CSS, JavaScript), Working with database (MS SQL Server), Web Programming basics using ASP.Net MVC, Understanding agile software project management
Nov 2012 – Jan 2013	Title: Industrial Training on Professional Networking Institution: Oracle Training & software LTD. Topics: Hardware & Trouble Shooting, Networking, Windows & Linux Server.
Online Courses	Based on Artificial Intelligence and Machine learning at Coursera

COMPUTER SKILLS

Programing Languages: R, Python, MATLAB, .NET C, C++, C#, JavaScript, HTML, CSS, LaTeX, MYSQL, SQL, Mongo dB, PostgreSQL

JavaScript Framework: Node.js, Electron.js, Express.js, Feather.js

Programming IDEs: RStudio, Eclipse, NetBeans, Microsoft Visual Studio, Visual Studio Code, PyCharm

Operating Systems: Windows, MacOS, Linux

Other Tools: Weka, Gitlab, GitHub, Jira, Slack MS Office

LANGUAGE PROFICIENCY

Native Language: Bengali
Foreign Language: English (Advance), French (A1)

CITIZENSHIP

Bangladeshi

COMMUNICATION SKILLS

Excellent communication skill gained being a team member in several teams at offices and research groups. Good telephone manner.

HONORS AND AWARDS

- Merit Scholarship in undergraduate for excellent academic performances. Awarded by Port City International University from 2014 to 2018
- Board Scholarship in school level for outstanding result from 2007 to 2009. Awarded by Rangamati District, Bangladesh

REFERENCES

Prof. Dr. Gabriele LENZINI	**Dr. Huseyin DEMIRCI**
Associate Professor	Research Associate
Supervisor	Research Advisor
Head of IRiSC	Department IRiSC
Interdisciplinary Centre for Security, Reliability and Trust (SnT)	Interdisciplinary Centre for Security, Reliability and Trust (SnT)
University of Luxembourg	University of Luxembourg
Email: gabriele.lenzini@uni.lu	Email: huseyin.demirci@uni.lu

DECLARATION

I, the undersigned, certify that to best of my knowledge & belief, this resume correctly describe my qualifications & me. I understand any willful misstatement described here may lead to my disqualification.

SIGNATURE:

Shahedul Islam