
Contact Information:



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Academic Background:



Ph.D. in Computer Science
The University of Memphis, Memphis, TN
Expected Graduation: May 2019

M.Sc. in Computer Science
The University of Memphis, Memphis, TN
Graduated: December 2016

B.Sc. in Computer Science & Engineering
Khulna University of Science & Technology, Khulna, Bangladesh
Graduated: May 2011

Professional Skills:



Graduate Assistant (Teaching Assistant & Research Assistant)

The University of Memphis, TN

Duration: January 2015 to **continuing**

Responsibilities: Grading, preparing class lecture, conducting classes (often), conducting lab classes (Java, *for some lab courses), office hour for question/ answering

Teaching Assistant

South Dakota School of Mines & Technology, Rapid City, SD

Duration: August 2014 to December 2015

Responsibilities: Conducting lab class (C++), lab lecture preparation, office hour for question/answering.

Web Developer, Intern

Pannin Technologies Inc & Fleetsafety Inc. Memphis, TN

Duration: May 2016 to August 2016

Responsibilities: Managed an eCommerce website (www.fleetsafety.com) and added features to their existing web application. For the Pannin Technology Inc, developed features for some police security devices.

Senior Software Engineer

Samsung R&D Institute, Dhaka, Bangladesh

Duration: February 2014 to August 2014

Responsibilities: As a senior software engineer, managed and developed Samsung handset java applications. Since, it was a research and development center, I have to research the security vulnerabilities, checking functionality, finding and fixing bugs of the market and upcoming Samsung handsets.

Software Engineer

Samsung R&D Institute, Dhaka, Bangladesh

Duration: March 2013 to January 2014

Responsibilities: As a research and development personal, I have to deal with upcoming Samsung handsets' networking issues, security issues, vulnerabilities, fixing bugs of the core operating system.

Software Engineer

Evatix Ltd, Dhaka, Bangladesh

Duration: May 2011 to February 2013

Responsibilities: As a web developer, I have to develop and manage work load for web applications from scratch. As a dedicated personal for any specific project, I have to ensure the full software development lifecycle for certain projects, which also included communicating with user, testing and maintenance. Most of the eCommerce projects' I have to ensure the security issues that can arise later and considered all security vulnerabilities while developing those application. A team leading attitude was built during that period.

Publications & Writings:

[1]. "Component Criticality Analysis: An Efficient Approach towards Minimizing the Risks of System Software Failure", Physical Review & Research International 2014. Volume: 4, page 231-245.

[2]. "Component Criticality Approach towards Minimizing the Risks of System Failure", Advanced Computing and Communication Technologies (ACCT), 2013 Third International Conference. ISSN: 2327-0632, Print ISBN: 978-1-4673-5965-8, Digital Object Identifier: 10.1109/ACCT.2013.11. Page 1-7

Research Interest:

Cyber Security (Runtime Monitor, Intrusion Detection & Prevention System):

As a graduate student of The University of Memphis, I was working with Cyber Security from the very first day. My work involves to identify the anomalies by developing an Intrusion Detection System which is not detect an abnormal system behavior but also defend the system from outside attacker. My master's thesis proposed a Collaborative Runtime Monitor that monitors the system behavior in a collaborative fashion on runtime and after detecting any abnormal behavior it has the action plan or defense strategy for the countermeasure.

Cloud Computing (Moving Target Defense):

Monitoring the abnormal behavior while migrating the Virtual Machine in Cloud Computing and a defense system to countermeasure against intrusion.

Computer Network:

Network Security, vulnerability issues of the system, hiding data packet from external adversary during Virtual Machine Migration.

Machine Learning & Data Science:

Adapting machine learning approach to detect the anomaly in Intrusion Detection System.

Training Program:

Cisco Network Academy Program (CNAP)

Khulna University of Engineering & Technology, Khulna, Bangladesh
Duration: March 2010 to February 2011

Problem Solving & Language Adaptability Training

Samsung R&D Institute, Dhaka, Bangladesh
Duration: March 2014 to May 2014

Responsibility: **Conducted** a training program for the fresh software engineer inside Samsung Research & Development Center, Bangladesh where performed as a trainer to train them how to solve the problems, different strategy on problem solving skills and introduced different programming language skills like java, C++, web programming.

Academic Projects:

Graduate Level:

Web Crawler using Information Retrieval (Fall 2017)
An evolutionary approach as Intrusion Detection System to detect anomalies for web applications (Fall 2017)
Detection and Countermeasure of SQL Injection (Spring 2016)
Student Management System (Spring 2015).
Secure File Management System (Spring 2015).

Undergraduate level:

Eight Way Traffic Control System (Fall 2011).
Mobile Based Information Collector (Fall 2007).
Other Projects (2006 - 2011)
 Online Course Registration System
 University Student Automatic Grading System
 Online Automatic QUIZ Test System

Technical Skills:

Programming Languages:

Java (**Professional**) | C++ (Intermediate) | C (Intermediate) | PHP (**Professional**) | Python (Intermediate) | Ruby (**Professional**) | C# .Net (Intermediate) | Perl

Database & Database Management System:

SQL (**Professional**) | SQLite (**Professional**) | Oracle 11g (Intermediate)

Operating System & Servers:

Linux (**Professional**) | Windows (**Professional**) | Amazon EC2 (Intermediate)

Major Courses:



Graduate Level:

Network Security, Cryptography, Evolutionary Computing, Real Time Operating System, Machine Learning, Data Science, Information Retrieval, Parallel Computing, Distributed System, Foundation of Computing, Problem Solving/ Algorithm, Software Engineering

Undergraduate Level:

Operating Systems, Database Systems, Algorithm, Programming Language, Computer Architecture, Data Structure, Computer Networks, Computer Graphics, Artificial Intelligence, Discrete Mathematics, Graph Theory, Digital Logic Design, Microprocessor, Digital System Design, Peripheral Interface.

References:

Provide upon request