

FAHAD SHAON

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Objective

Obtaining a challenging position to utilize my skills in data analytics, applied cryptography, and software engineering to build innovative software systems.

Education

THE UNIVERSITY OF TEXAS AT DALLAS, Richardson, Texas - 75080

PhD in Computer Science, Advisor - Dr. Murat Kantarcioglu, CGPA: 3.976/4.0, *Expected Graduation: Dec 2017*

Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

B.Sc. Engineering, Computer Science and Engineering, CGPA: 3.50/4.0, Feb 2011

Job Experiences

Software Development Engineer Intern, *Kumo Knowledge team in AWS, Amazon*, Seattle, WA, 06/2016-08/2016

- Built effective and quantifiable mechanism to score search engine performance
- Evaluate and implement search result improvements to increase efficiency of search engine

Research/Teaching Assistant, *UT Dallas Computer Science Department*, Richardson, Texas, 09/2012-Present

- Research focus: improve privacy in cloud computing environment leveraging encryption technologies
- Administrate DSPL Lab clusters for privacy preserving big data mining experiments with Spark and Hadoop

Junior Software Engineer, *Therap Services, LLC*, Dhaka, Bangladesh, 09/2011 - 07/2012

- Contribute in designing and implementing HIPPA compliant developmental disability patient data documentation web application, which is build using Java EE frameworks.

Technical Skills

Languages: Java (10 years of experience), Python, C++, JavaScript, R, PHP, C#, Shell Scripting

Frameworks: Spring Framework, Android, Hibernate, D3.js, ReactJS, Flask, Laravel, Unity

Distributed Frameworks: Apache Spark, Hadoop, Elasticsearch, Apache Pig, HBase

Cloud Platforms: Amazon Web Services (EC2, S3, Lambda, Elasticsearch, EMR, Kinesis, ML), Google Cloud Platform (Storage, BigQuery, AppEngine, Compute Engine), Heroku

Databases: MongoDB, Oracle, MySQL, PostgreSQL

Analytical Tools: Weka, scikit-learn, matplotlib, MLLib, Pandas, GNU Plot, Matlab

Development Tools: Git, Gradle, Maven, Ant, IntelliJ IDEA

Projects

Complete list at <http://www.shaon.org/projects.html>

Encrypted Data Analytics Framework

(C++, Intel SGX, OpenSSL)

Proposed and implemented encrypted data analytics framework that allows multiple distrusting parties to perform complex data analytics and data mining tasks on large scale encrypted data sets.

Secure Image Backup

(Android, Java, Dropbox API)

Implemented an android application to automatically encrypt and backup photos taken with device camera. A double-layered encryption mechanism is also available to enhance security for sensitive pictures. This project was showcased in *10th anniversary celebration of Cybersecurity Institute at UT Dallas*.

News Search Engine

(Apache Lucene, Crawler4j, MongoDB, MapDB)

Designed a modular search engine for recent news and implemented crawler and page rank analyzer modules. Finally, we crawled and ranked 574,000 interconnected web pages from top news provides.

Publications

A Practical Framework for Executing Complex Queries over Encrypted Multimedia Data

Proposed and implemented encrypted data analytics framework that allows multiple distrusting parties to perform complex data analytics and data mining tasks on large scale encrypted data sets. [DBSec 2016: 179-195]

Awards and Honors

- 1st place winner of Code Warriors' Challenge 2011, Student Category, Java Track organized by [BASIS](#).
- Finalist of [State Farm Coding Competition 2015](#) among 380 teams.

Work Authorization: F-1 VISA

References: References available upon request