

ABU OBAIDA

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<http://tareqobaida.github.io/>

EDUCATION

Texas A&M University, College Station, TX

May 2015

Master of Engineering in Computer Engineering, CGPA 3.68 out of 4

Bangladesh University of Engineering and Technology (BUET)

Jan 2008

Bachelor of Science in Electrical & Electronic Engineering (EEE), CGPA 3.46 out of 4

RESEARCH INTEREST

Machine learning, data exploration/analytic/visualization, web mining, social network analysis, recommender system, toolkit/library development, natural language processing

PUBLICATIONS

RNASeqMetaDB: a database and web server for navigating metadata of publicly available mouse RNA-Seq datasets Journal

Guo Z, Tzvetkova B, Bassik JM, Bodziak T, Wojnar BM, Qiao W, **Obaida MA**, Nelson SB, Hu BH, Yu P

Published at Bioinformatics (2015)/Oxford University Press, Aug 30, 2015

Analysis on Interactive Data Race Checker: IDRC

Conference

M. Obaida, I. Jahan and S. Z. Sajal

Presented at the 16th Annual IEEE International Conference on Electro/Information Technology (eit2017), May 14-17, 2017 Lincoln NE, USA.

Interactive Sensitive Data Exposure Detection through static analysis

Conference

M. Obaida, E. Nelson, R. Ee, I. Jahan and S. Z. Sajal

Presented at the 16th Annual IEEE International Conference on Electro/Information Technology (eit2017), May 14-17, 2017 Lincoln NE, USA.

RESEARCH EXPERIENCE

Yu Bioinformatics Lab, Texas A&M University

May 2015 - Nov 2015

Software Developer (Prof. Peng Yu)

College Station, Texas

- Collected publicly available RNA-Seq experiments data on mouse models, organized them in database and developed the web interface

Texas A&M University

2013-2014

Course Project

College Station, Texas

- Developed IDRC, an Eclipse plugin for detecting data race in multi-threaded Java programs. IDRC aims to provide early warning to Java programmer and give the opportunity to fix data races. (Prof. Jeff Huang)
- Proposed an approach to detect security vulnerabilities from the Java source code. Implemented the approach as Eclipse plugin. (Prof. Guofei Gu)
- Designed and implemented Twitter fake user detection algorithm on basic criteria. (Prof. Narasimha Reddy)

- Minority carrier profile in exponentially doped base bipolar junction transistor

TEACHING EXPERIENCE

Texas A&M University

Teaching Assistant

Jan-2014 - May-2014

College Station, Texas

- Taught lab for ENTC 455 - Wireless Transmission System, upgraded lab materials

PROFESSIONAL EXPERIENCE

Technology Resources, University of Texas at Austin

Software Developer/Analyst

November 2015 - Present

Austin, TX

- Developed web application and API with Python.

Huawei Bangladesh and Huawei Indonesia

Optimization Engineer

October 2010 - July 2013

Dhaka and Jakarta

- Performed radio network data analysis and recommendation.
- Developed in-house software and data analysis tool.

Ericsson Bangladesh and Ericsson Vietnam

Optimization Engineer

January 2008 - October 2010

Dhaka and Ho Chi Minh City

- Performed radio network data analysis and recommendation.
- Developed in-house software and data analysis tool.

AWARDS/ ACTIVITIES

- Founder, My Study Notebook, an online platform to provide end to end solution to higher study aspirant students. Jan 2016
- Founder, White Canvas Software, a software startup based in Dhaka, Bangladesh March 2012
- Active member, PyData Austin, Austin Web Python and The Austin Python Meetup. 2016 - present
- Outstanding performance award, Huawei Bangladesh. 2012

TECHNICAL STRENGTHS

Programming Languages

Proficient in Python, Java, SQL, HTML, CSS. Prior experience in C/C++, PHP, MATLAB, LISP, Verilog

Libraries, Tools and IDEs Frameworks

Numpy, Scipy, Pandas, Jupyter, Bokeh, LaTeX
Django, Flask, Codeigniter

Databases

MySQL, PostgreSQL, Oracle

Protocols & APIs

XML, JSON, SOAP, REST

Operating Systems

Linux, Windows

Server

Apache, Nginx

Virtualization

Docker, Vagrant

Version control

Git, svn