Arif Ahmed

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ACADEMIC QUALIFICATION

Doctor of Philosophy (Ph.D.), Management Information Systems,   August, 2021- July, 2025(Expected)
The University of Arizona, Tucson, Az, USA.

Masters of Science (M.S), Computer Science,   August, 2019- May, 2021
University of North Texas, Denton, Tx, USA.

Bachelor of Science (B.Sc.), Computer Science and Engineering,   May,2010-December,2014
North South University (NSU), Dhaka, Bangladesh

RESEARCH INTEREST

• Healthcare Analytics

• Text data mining of medical data and research on NLP using machine learning

PROFESSIONAL EXPERIENCE

Graduate Associate, Research, The University of Arizona   August,2021 – Present
Conducting Research on Medical Text data using NLP

Teaching Assistant, University of North Texas   January,2021 – July, 2021
Course: CSCE 1030, Computer Science 1
Supervisor: Dr Pradhumna Srestha

- Conduct Lab Class and teach C/C++ programming
- Grade project and exam papers

Teaching Assistant, University of North Texas   August, 2020 – December, 2020
Course: CSCE 2110, Computer Foundations 2
Supervisor: Amar Maharjan

- Conduct Lab Class and supervise the class project
- Grade project and exam papers

email: arifahmed@email.arizona.edu

Teaching Assistant, University of North Texas   May, 2020 – August, 2020
Course: CSCE 3444, Software Engineering
Supervisor: Obianuju Okafor

- Supervise the class project
- Grade project and exam papers

Teaching Assistant, University of North Texas   August,2019 – May, 2020
Course: CSCE 1030, Computer Science 1
Supervisor: Dr Mark Thompson

- Conduct Lab Class and teach C/C++ programming
- Grade project and exam papers

Software Quality Assurance Engineer, REVE Systems Ltd, Bangladesh   May, 2017 – April, 2018

- Perform Web based application testing, Mobile application testing
- Testing scope analysis, test plan, test case design and test case execution
- Finding bugs. Issue tracking, Issue reporting, Issue verification and API Testing
- Perform various types of testing Functional, Sanity testing, Regression testing etc.

Junior Software Quality Assurance Engineer, Reve Systems Ltd, Bangladesh   April, 2016 – May, 2017

- Testing GUI (Graphical User Interface) of IM (Instant Messaging) Software
- Testing Server-Side application on Linux platform
- Testing different application of IM(Instant Messaging) software.

Intern at Proggasoft Ltd, Dhaka, Bangladesh   December, 2014- March, 2015

- Introduction to applied software engineering
- Design patterns with example and code implementation Introduction to Test Driven Development (TDD)
- Unit testing frameworks and their implementation using visual studio, OOP principles such as SOLID principles, ACID Principle, Code smell and refactoring.
- Introduction to SQL server database advance features such as automatic backup, export/import, security configurations.
- Introduction to real world Asp.net MVC based website.

TECHNICAL KNOWLEDGE/SOFTWARE USED

- **Language** – Python, C, C++, Java, Verilog
- **Web Technology** - HTML&CSS, JS, Bootstrap, Git
- **Libraries** – Tensorflow, Keras, numpy, sklearn, Spacy, NLTK, PyTorch, Pandas, Matpotlibs
- **Database** - MySQL, MS SQL, Biqquery
- **Development Tools** – Jupyter Notebook, Google Colab, IBM SPSS, Tableau Software, NetBeans, Visual Studio, Dev C++, notepad ++, modelsim, Xilinx, SE Tools,
- **Runtime Environment** - CentOS, Kali Linux, RedHat Enterprise Linux, Windows XP/7/ 8/8.1/10

PROJECT AND THESIS

Graduate projects

- Flexible **gesture recognition** to enhance communication for motor impaired individual (Cerebral Palsy patient)
- Predict sales of a selected product in the future using **LSTM** Model using a Dallas based company's (Seeloz) sales data.
- Covid-19 visualization, prediction and forecasting using **Linear Regression** and **SVM**.
- Using **logistic regression** model Predict a suitable location for a new Walmart shop using Walmart data.
- Using **decision Tree** model to classify cancer type on Wisconsin breast cancer data.
- Ethical hacking via spoofing an email address using **linux SETools**.

Undergraduate thesis

- 16 Bit RISC Processor Designed with Verilog FPGA.

Undergraduate projects

- POS System for super shop.
- Working as an intern on an E-Commerce Platform.
- Picture puzzle games

EXTRACURRICULAR ACTIVITIES

- Active volunteer on 'South Banasree Youth Club' (A charity Organization in Bangladesh). Collecting, manging and distributing blankets and Clothes for the people living under poverty line. 2008-2011
- Was an organizer and active participant in many cyber athletes' programs during the undergraduate study
- Played Badminton at school and college level and own some local tournaments.
- E-sports FIFA player and own few national level tournaments.

SCHOLARSHIPS AND ACHIEVEMENTS

- Covid-19 Student Success Award, Summer, UNT 2020
- Departmental Scholarship, CSE, UNT 2019-2021
- Secondary School Certificate Board Scholarship in General Pool, Dhaka, Bangladesh – 2007-2008

ORGANIZATIONS

- Social Media Co-ordinator, ACM UNT Chapter   January, 2020- August, 2020
- Computer club active member (patronized by Department of Computer science & Engineering, NSU, Bangladesh) –2010-2014

REFERENCES

1. Mr. Iqbalur Rahman
   Senior Lecturer, Department of Electrical and Computer Science, North South University
   MS from California State University
   Email: iqbalur.rahman@northsouth.edu
   Contact No: +880855668200 Ext – 1518

2. Dr Mark Albert
   Assistant Professor, Department of Computer Science and Engineering, University of North Texas
   Ph.D. Cornell University
   Email: Mark.Albert@unt.edu
   Contact Number: 9402683648

3. Dr. Cihan Tunc
   Assistant Professor, Department of Computer Science and Engineering, University of North Texas
   Ph.D. University of Arizona
   Email: Cihan.Tunc@unt.edu

4. Dr Pradhumna Shrestha
   Senior Lecturer, Department of Computer Science and Engineering, University of North Texas
   PhD, University of Nebraska-Lincoln
   Email: pradhumna.shrestha@unt.edu