Syed Mohammed Arshad **Zaidi**

PH.D. STUDENT · RESEARCH PROJECT ASSISTANT

338 Davis Hall, University at Buffalo, 14260, USA

(+1) 716-541-4663 | szaidi2@buffalo.edu | smazcw3.github.io | smazcw3

Education

University at Buffalo   *Buffalo, USA*

PH.D. IN COMPUTER SCIENCE AND ENGINEERING   *Aug. 2015 - PRESENT*

- Working in the area of Machine Learning and Data Science.

University of St Andrews   *St Andrews, Scotland, UK*

MSC IN ADVANCED COMPUTER SCIENCE   *Sep. 2011 - Nov. 2012*

- Developed and Implemented an LCFRS parser in Python.

Institiute of Engineering and Tehnology   *Lucknow, INDIA*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *Aug. 2004 - July. 2008*

- Developed an Employee information Portal.

Experience

University at Buffalo   *Buffalo, USA*

RESEARCH PROJECT ASSISTANT   *Mar. 2017 - Present*

- Research activity involves in integrating heterogeneous urban data.
- Working with NYC and Uber Taxi Data.

Amocon GmbH   *Doha, Qatar*

LEAD ENGINEER-SOFTWARE   *Dec. 2012 - Mar. 2015*

- Worked as a Lead Software Engineer for Software development.
- Chemical Reactor Process Simulations and material flow modeling.

Websofy Software Pvt. Ltd.   *Lucknow, India*

PROGRAMMER   *Jan. 2010 - Jul. 2011*

- Developing Web applications.
- Defines site objectives by analyzing user requirements; envisioning system features and functionality.
- Gather and refine specifications and requirements based on technical needs.

R-Infotech   *Lucknow, India*

ASSISTANT PROGRAMMER   *Sep. 2008 - Dec. 2009*

- Developed Web Applications.
- Creating website layout/user interfaces by using standard HTML/CSS practices.
- Integrating data from various back-end services and databases.

Certifications & Independent Coursework

Deep Learning Specialization   *Coursera*

DEEPLEARNING.AI   *Mar. 2018*

- Neural Network and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

DAT203.3x: Applied Machine Learning

Microsoft

edX

Nov. 2017

- Learn about applications of data science and machine learning.
- Able to work with time series data, spatial data, text analytics and image analysis.

DAT203.2x: Principles of Machine Learning

Microsoft

edX

Nov. 2017

- Hands-on experience of working with Azure Machine Learning and building data science solutions.
- Understanding key principles to model improvement.
- Able to create SVM model, Neural Network using Azure ML solution.
- Able to design clustering model and recommender systems using Azure ML solution.

DEV221x: AngularJS: Advanced Framework Techniques

Microsoft

edX

Nov. 2017

- Understanding of Angular Services for Data Access - Service, Factory, Provider.
- Focus on defining and using directives and scope.
- Using bootstrap and animations (ngAnimate)
- Installing and setting up Node and making express basic server.
- Configuring Angular Modules and introduction to Routing Tools using ngRoute and ui-router.

DEV220x: AngularJS: Framework Fundamentals

Microsoft

edX

Oct. 2017

- Covering all the key basic concepts related to AngularJS
- Basics of Angular's module definition and how to perform basic dependency injection between components.

Advanced Data Structures in Java

UC San Diego

Coursera

Aug. 2016

- Representing the key pieces of data in a complex data structure.
- Learn about data structures, like graphs, that are fundamental for working with structured real world data.
- Develop, implement, and analyze algorithms for working with this data to solve real world problems.

Data Structures and Performance

UC San Diego

Coursera

Jul 2016

- Focus on Strings and other data structures like trees (Binary search trees and tries), hash tables, linked lists and arrays
- Analyzing a program's efficiency through asymptotic analysis.

Object Oriented Programming in Java

UC San Diego

Coursera

Jan. 2016

- Understanding basic concepts like objects, memory models, and scope.
- Creating an interactive graphical map that will display geospatial data.
- Adding interactivity to the map by designing event-driven programs.

Hadoop Platform and Application Framework

UC San Diego

Coursera

Jan. 2016

- Understanding Hadoop Stack, Hadoop Distributed File System (HDFS), Map/Reduce, Spark
- Working on Apache Spark cluster computing framework, and understanding its advantages over Hadoop MapReduce in the Big Data Arena.

Introduction to Big Data

UC San Diego

Coursera

Dec. 2015

- Understanding the Big Data landscape including examples of real world big data problems.
- Introduction to architectural components and programming models used for scalable big data analysis.
- Focus on core Hadoop stack components including the YARN resource and job management system, the HDFS file system and the MapReduce programming model.

Introduction to Mobile Application Development using Android - Comp107x

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

edX

Sep. 2015

- Certificate of successful completion.

Introduction to Java Programming (Part 2) - The Hong Kong University of Science and Technology – Comp 102.2x

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

edX

Jul. 2015

- Certificate of successful completion.

Reproducible Research

JOHNS HOPKINS UNIVERSITY

Coursera

Jun 2015

- Concepts and tools behind reporting modern data analyses in a reproducible manner
- Focus on literate statistical analysis tools which allow one to publish data analyses in a single document that allows others to easily execute the same analysis to obtain the same results.

Introduction to Java Programming (Part 1) - Comp 102.1x

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

edX

May 2015

- Certificate of successful completion.

Exploratory Data Analysis

JOHNS HOPKINS UNIVERSITY

Coursera

May 2015

- Essential exploratory techniques for summarizing data.
- Understand plotting systems in R as well as some of the basic principles of constructing data graphics.
- Common multivariate statistical techniques used to visualize high-dimensional data.

Getting and Cleaning Data

JOHNS HOPKINS UNIVERSITY

Coursera

Apr. 2015

- Understand basics of data cleaning and how to make data "tidy".
- Focus on components of a complete data set including raw data, processing instructions, codebooks, and processed data.

R Programming

JOHNS HOPKINS UNIVERSITY

Coursera

Mar. 2015

- Install and configure software necessary for a statistical programming environment and describe generic programming language concepts as they are implemented in a high-level statistical language.
- Understand practical issues in statistical computing which includes programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, and organizing and commenting R code.

Data Scientist's Toolbox

JOHNS HOPKINS UNIVERSITY

Coursera

Feb. 2015

- Overview of the data, questions, and tools that data analysts and data scientists work with.
- Conceptual introduction to the ideas behind turning data into actionable knowledge.
- Practical introduction to the tools like version control, markdown, git, GitHub, R, and RStudio.

Introduction to Programming in Java - Problem Solving in Java

SAN JOSE STATE UNIVERSITY

Udacity

Sep. 2013

- Focus on writing efficient code that involves combining different data structures like arrays and tables.
- Understanding Object and classes and key concepts related to object-oriented programming paradigms such as encapsulation, inheritance and polymorphism.

Coding the Matrix: Linear algebra through computer science applications

BROWN UNIVERSITY

Coursera

Sep. 2013

- Introduction to vectors and matrices and their use in CS applications.
- Working of vectors and matrices in applications from diverse areas included combinatorial optimization, computer vision, cryptography, game theory, graphics, information retrieval and web search, machine learning, and scientific visualization.

Machine Learning

Coursera

Stanford University

Aug. 2013

- Learning and implementing different supervised and unsupervised learning algorithms.
- Certificate of successful completion with perfect score.

An Introduction to Interactive Programming in Python

Coursera

Rice University

Apr. 2013

- Developing GUI based games in Python.
- Certificate of successful completion.

Software as a Service (Ruby on Rails) - 169.1x

edX

University of California, Berkeley

Feb. 2013

- Certificate of successful completion.

Introduction to Computer Science and Programming in Python - 6.00x

edX

Massachusetts institute of technology

Jan. 2013

- Certificate of successful completion.

Programming in Python

Coursera

University of Toronto

Nov. 2012

- Learned fundamental topics of python programming which covered String manipulation, tuples, dictionary, lists, sets, files operations along with object-oriented programming principles in python etc.
- Got the Certificate of successful completion

Honors & Awards

International

2017	**Research Assistantship**, Awarded an Research Assistantship at University at Buffalo	*Buffalo, USA*

Domestic

2013	**Chartered Engineer**, Awarded the degree of Chartered Engineer in the field of Computer Science and Engineering at Institution of Engineers, India	*Kolkata, India*
2013	**Associate Member at Institution of Engineers**, Elected as Associate Member in the field of Computer Science and Engineering at Institution of Engineers, India	*Kolkata, India*

Professional Memberships

Association for Computer Machinery (ACM)

USA

Professional Membership

Dec. 2012 - PRESENT

- Became a Professional Member of Association for Computer Machinery.

Institute of Electrical and Electronic Engineers (IEEE)

USA

Affiliate Member

Dec. 2012 - PRESENT

- Became a Affiliate Member of Institute of Electrical and Electronic Engineers.