Shadman Sakib Mozumder

Contact Information

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Education

Master of Science in Computer Science	(Aug 2020-Dec 2022)

University of Texas at Dallas

Bachelor of Science in Industrial and Production Engineering	(Feb 2013-Sep 2017)

Bangladesh University of Engineering and Technology (BUET), Dhaka

Job Experience

University of Texas at Dallas	(Oct 2022-Dec 2022)

Grader, Operating Systems Concept

Vistra Corp	(Jun 2022-Aug 2022)

Data Science Intern

- Analyze texts of Comments and Issues from the Alarms and Tickets raised during operation
- Apply possible solutions to the new Alarms and Tickets with previous analysis
- Develop an app using python tkinter GUI for user friendly analysis

Infrastructure Development Company Limited (IDCOL)	(May 2018-Sep 2020)

Senior Officer, Public Private Partnership and Investment Advisory

M&J Group	(Nov 2017-Apr 2018)

Executive, Planning and Business Development

Technical Skills

Languages: C, C++, Java, Python, JavaScript, PHP, SQL, R, HTML, CSS, MIPS-32, Oracle, MATLAB
Tools: Hive, Hadoop, Apache Spark (PySpark, Scala), AWS, NoSQL (Cassandra, MongoDB, HBase), Sci-kit, Kafka, Linux, Pandas, xv6, Raspberry pi, Django, Bootstrap, Git, Virtual Box, Docker, XML
Other: AutoCAD, SOLIDWORKS, CATIA, Arena, MS Office

Relevant Coursework

Graduate Courses: *In Progress*: Natural Language Processing, Cloud Computing, Web Programming Languages, Object Oriented Analysis and Design

Completed: Big Data Management and Analytics; Machine Learning; Software Engineering; Statistical Methods for Data Science; Statistical Methods for ML/AI; Database Design; Operating Systems Concepts; Design and Analysis of Computer Algorithms; Algorithm Analysis and Data Structure; Probability and Statistics; Computer Architecture; Computer Science; Discrete Structures;

Completion of Projects (Selected)

Individual Projects:

- Develop a "shoot 'em up genre" game using pygame from the scratch.
- COVID-19 detection using 3D CNN model on TensorFlow framework with data from volumetric chest CT scans

Journal Publications: Mozumder, A., Luo, A., Ramaswamy, D., Mozumder, S., and Kaddouh, F., 2022. Single Center Experience of Intrahecal Nicardipine Use in The Treatment of Vasospasm - Lessons Learned. Stroke: Vascular and Interventional Neurology (In Press).

(*Contribution:* Used R in dataset to perform regression analysis for finding relation among the factors)

Software Engineering Project: Develop a smart home temperature control system using raspberry pi

Big Data Management and Analytics: Applying PageRank to persons of interest in Enron fraud case using their email communication

Machine Learning Project: Predicting Willingness to Pay from "Feasibility Study for Electrification of Rangabali sub-district with Renewable Energy"

Database Design Project: Draw an EER diagram, design a relational data model, write SQL statements to create database, tables and all other structures for a food/products delivery service company.

Operating Systems Concept: Designing a Unix Shell Program; Implement a Lottery Scheduler in xv6; Applying concurrent threads for CS mentoring center; Design a basic File system checker in xv6

Computer Architecture Project: Open a file containing 8-digit Hexadecimal numbers and convert them into MIPS-32 assembly language statement