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	**GPA:** 3.61 out of 4.00
Bachelor of Science in Industrial and Production Engineering	(Feb 2013-Sep 2017)
Bangladesh University of Engineering and Technology (BUET), Dhaka	**GPA:** 3.23 out of 4.00

Technical Skills

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

Relevant Coursework

Graduate Courses: _In Progress_: Natural Language Processing, Cloud Computing, Web Programming Languages
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; Operations Research; Project Management; Operations Management;

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

Software Engineering Project: Develop a smart home temperature control system with a web API 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; Solving tutor seeking problem using 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

Job Experience

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 a GUI with python tkinter 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