Shadman Sakib Mozumder

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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

Paycom - (Feb 2023-Present)
Software Developer (Full Stack Dev for CRM modules, ETL, Query Optimization etc.)
University of Texas at Dallas - (Oct 2022-Dec 2022)
Grader, Operating Systems Concept
Vistra Corp - (Jun 2022-Aug 2022)
Data Science Intern
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: Python, C, C++, Java, JavaScript, PHP, C#, SQL, R, HTML, CSS, MIPS-32, MATLAB
Tools: React, Node, Hive, Hadoop, Apache Spark (PySpark, Scala), Linux (Shell Scripting), Git, AWS**,** NoSQL (Cassandra, MongoDB, HBase), ML libraries (scikit-learn, TensorFlow, Keras, PyTorch, Pandas), Kafka, Docker, Raspberry pi, Spring Framework, Django, Bootstrap, Virtual Box, XML

Relevant Coursework

Graduate Courses: Software Engineering; Machine Learning; Statistical Methods for ML/AI; NLP, Big Data Management and Analytics; Web Programming Languages; Cloud Computing; Object Oriented Analysis and Design; Database Design; Algorithm Analysis and Data Structure; Computer Architecture;

Completion of Projects (Selected)

Individual Projects:
- Develop a client relationship management app with Django framework and Mongodb Database
- Develop a "shoot 'em up genre" game using pygame from the scratch.
- Develop an app using python tkinter GUI to analyze texts of Comments and Issues from the Alarms and Tickets raised during operation with possible previous solutions data using NLP and Big Data Algorithms.
- 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
Natural Language Processing: Sentiment Analysis; Pasts of Speech Tagger with Hidden Markov Model; Named Entity Recognition using RNN; Summarization and question answering using BERT
Cloud Computing: Utilize edge cloud and VMs to execute a license plate recognition system
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