Nasheath Ahmed

28-41 35th St Astoria NY, 11103
(347)-885-5877 • nasheath_ahmed@brown.edu

Education

BROWN UNIVERSITY **GPA**: 3.90/4.0
B.S. in Computer Science – Expected May 2022
A.B in Biology – Expected May 2022
Pre-Medical Track
RELEVANT COURSES: Introduction to Object-Oriented Programming, Data Structures and Algorithms, Introductory Calculus, Chemistry(Equilibrium, Rate, and Structure), Genetics, Introduction to Computer Systems, Practical System Skills
CURRENT SPRING COURSES: Data Science, Introduction to Software Engineering, Organic Chemistry I, Statistical Methods, Linear Algebra

Professional Experience

Artificial Intelligence at Brown's Center for Biomedical Informatics, Providence, RI, Sept 2019 –January 2020
- Worked on Deep Learning Algorithm that would automate the Readmission Prediction of patients' electronic health record using RNN's and CNN's in a Keras framework API in Python.
- Word Embedding on unstructured patient data to understand multi-word and multi-sentence patterns within our model.

Undergraduate Machine Learning Researcher at Samuel Cho Spine Laboratory, New York, NY June 2019 –Sept. 2019
- Clinical Research in the Orthopedic field with focus on CT and MRI scans
- Worked on CycleGAN machine learning algorithm to convert thousands of CT scan images into MRI scans which utilizes Pytorch framework in Python
- Worked on feature extraction using pre-trained convolutional networks
- Developed skills in Convolutional Neural Networks and Image Preprocessing using Python
- Conducted research into clinical applicability of the conversion of CT images and various algorithms to help solve for the conversion
- Worked on creating segmentation masks of spine X-rays for Lumbar Fusion project

Instructor at Khan's Tutorial, *Astoria, NY August 2017 – Aug. 2018*
- Instructed Kindergarten to 6th grade students in Common Core Mathematics and ELA
- Instructed 7th and 8th graders in preparing for the SHSAT examination

Relevant Projects

DECISION TREE, *Brown University, Providence, RIMar. 2019*
- Java implementation of the id3 algorithm which generates a decision tree based on training data and can be used to test its accuracy on testing data.

SHELL *Brown University, Providence, RIOct. 2019*
- C implementation of interactive shell with built-in commands and system call implementation through string parsing.

FARMULATOR, *Brown University, Providence, RIMay. 2020*
- Java implementation of a full-stack farming simulator game using Spark and SQLite.
- Worked on the backend and all the database queries as well as the connection between the front-end and the back-end.

Leadership & Volunteer Experience

Youth Justice Board, *New York, NY Sep. 2017 – May 2018*
- Facilitator and advocate in the reforms of the homeless youth in the city of New York
- Assisted in creating reform efforts for the policies pertaining to homeless youth through group presentations and focus groups

Achievements

Finalist in New York Business Plan Competition, *Bronx High School of Science, NY* June *2017*
- Formulated and developed a Business Plan where it was presented to various entrepreneurs
- Competed against 700 other students and over 180 teams and placed in the top 7

Skills & Interests

COMPUTER: Beginner: UNIX, Bash, HTML, CSS, C++, x86 Assembler Language, JavaScript
Intermediate: Java, Python, JavaFX, Pytorch, Keras, C
INTERESTS: Orthopedics, Machine Learning, Software Development,Neurology, Cell Biology, Cancer Research, Bash Scripting, Computational Biology, Genetics, Stocks and Investment, Compilers, Operating Systems, Graphic Design