

ADRITA DUTTA

Graduate Student, The University of Texas at Dallas
Major: MS in Computer Science, Data Science
Undergraduate : B.Tech in Computer Science and Engineering
Work Authorisation: F1-Visa

990 loop road sw ,Richardson , Texas, 75080

aduttajs@gmail.com | axd172930@utdallas.edu ✉

+1 9797390560 ☎

www.linkedin.com/in/adrita-dutta-b675b597

OBJECTIVE

Seeking internship for summer 2018 that will enable me to utilize my strong academic as well as research background.

EDUCATION

The University of Texas at Dallas, <Aug'17 – Present>

- Master of Science (MS) in Computer Science with Specialization in Data Sciences.
- GPA – 3.33/4.0

National Institute of Technology Durgapur, <Jul'13 – May'17>

- Bachelor of Technology (B.Tech) in Computer Science and Engineering.
- GPA – 7.36/10

RELEVANT COURSES

Graduate Level

- ☐ Design and Analysis of Computer Algorithms
- ☐ Statistical Methods for Data Science
- ☐ Database Management Systems
- ☐ Natural Language Processing
- ☐ Developing and securing the cloud

Undergraduate Level

- ☐ VLSI Testing and Verification
- ☐ Optical Networks
- ☐ Computer Networks
- ☐ Data Structures
- ☐ Software Engineering
- ☐ Artificial Intelligence

SKILLS AND ABILITIES

Computing Languages

- C
- C++
- HTML
- Java
- Python
- Verilog
- R

Software Packages

- MS Excel
- MS Internet Explorer
- MS Office
- MS Outlook
- MS PowerPoint
- MS Word
- Android Studio
- MySQL

Languages

- English
- Bengali
- Hindi
- Nepali.

Operating Systems

- Windows 10
- Windows 98/2000/XP/7, X/Windows
- Linux

PROJECTS

UNDERGRADUATE PROJECTS:

ATM Simulator at HP Summer Training (CORE JAVA): <June '15-July '15>

- ☐ Creating a java application to perform all the functionalities of an ATM Machine. The final result consisted of a program, a user interface and a database to store all information about users and there account details.

Wireless Mobile Networks: fault detection and correction and it's energy consumption: <June '16-April '17>

- ☐ Theoretical Analysis of the best methods of energy consumption using multiple sinks in a hexagonal tessellation.

Raspberry Pi(Wifi router,Wireless Media Server) : <June '17 - July '17>

- ☐ Basic Raspberry Pi setup and setup and analysis of wifi router and wifi media server.

GRADUATE PROJECTS:

Spelling Corrector(NLP): <Aug'17-Dec '17>

- ☐ Creating a program that reads a command and corrects the spelling errors that are present(if present) in the sentence and displays as output the sentence with the correct spelling.This is done using Noisy Channel Modelling of Natural Language Processing.
- ☐ Result: The code runs for all spelling errors of edit distance 1. Any spelling error with edit distance >1 are considered as ignored and the final result does not contain it.

Dropbox Application end to end encryption:<Feb'18-April'18>

- ☐ Creating a program for Encryption of Cloud Storage (Dropbox) data at the client level
- ☐ Goal functions: Show menu; upload encrypted file; download file and decrypt it; upload encrypted file for share and download shared file received from another user and decrypt it
- ☐ Process: The code encrypts and decrypts the file using AES 256 encryption. SHA 512 also used to check integrity of file before downloading it.
- ☐ Result: The code guarantees safety of data. Since data encrypted at user level it guarantees that cloud provider cannot access or manipulate the data.

Library management system:<Feb'18-Mar'18>

- ☐ The project entailed the creation of a database host application that interfaces with a backend SQL database(MySQL) implementing a Library Management System.

Rudimentary Database:<Mar'18-April'18>

- ☐ The goal of this project is to implement a (very) rudimentary database engine that is loosely based on a hybrid between MySQL and SQLite. The implementation operates entirely from the command line and API calls.

POSITIONS OF RESPONSIBILITY

President, Literary Circle NIT Durgapur (2017)

- it is a college club that organises various literary events throughout the year including the Model United Nations NITD chapter and VERVE (the second largest literary fest of West Bengal, India)

Under Secretary General of NITMUN'16 (Model United Nations), NIT Durgapur

Secretary General of NITMUN'17, NIT Durgapur

INTERESTS

- Data Analytics
- Software Engineering
- Database Management
- Natural Language Processing.