

AMAN AGRAWAL

SDE-1 @Amazon || Ex- Synopsys || Alumni @IIITH

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EDUCATION

M.Tech - Computer Science and Engineering
IIIT Hyderabad

July 2018 - May 2020

CGPA: 8.09

B.Tech - Computer Science and Engineering
Bundelkhand Institute Of Engineering & Technology,
Jhansi

August 2014 - May 2018

Percentage: 74.96%

CBSE - 12th Class

St. Vivekanand Sr. Sec. School, Sadabad

April 2012 - April 2013

Percentage: 79.4%

CBSE - 10th Class

St. Vivekanand Sr. Sec. School, Sadabad

April 2010 - April 2011

CGPA: 10

EXPERIENCE

Amazon

SDE-1

November 2021 - Present

Gurgaon

Java, Spring, AWS

Synopsys

R & D Engineer - 2

June 2020 - November 2021

Hyderabad

GUI based SpeedAdapter Software Development
Tcl, Tkinter

Tata Consultancy Services

Remote Intern

June 2017- August 2017

Developed a hotel management website
Python Flask

SKILLS

- **Programming Languages**
C, C++, Python
- **Database**
SQLite, MySQL, DynamoDB
- **Web, GUI & Game Development**
HTML, CSS, Javascript, Bootstrap, Flask, Tkinter, PyGame

PROJECTS

Text Search Engine using Inverted Indexing for 70 GB Wikipedia dump

- Created a approximated 8GB in size inverted Index (tf-idf based) on a wikipedia corpus of size 70GB.
- Achieved average searching time of 0.5 second.
- Search also supports field queries.
- **Technologies used:** Python

Malicious URL Detection

- Designed a machine learning model that categorize benign and malicious web pages a.k.a. malicious url separately.
- Find features set (ex: URL length, DNS response time, etc.) from a given set of URLs
- Trained feature set over different machine learning algorithm
- **Technologies used:** Python, Sklearn, Numpy, Pandas

Mini Torrent File Sharing System

- Developed a distributed peer-to-peer file sharing system with a centralized tracker and an associated group of peers.
- **Technologies used:** C++

Terminal Based File Explorer

- Build a explorer to read and display list of files and directories in the current folder.
- Implemented basic functionalities like Copy, Move, Rename, Delete files and directories.
- **Technologies used:** C++

Gaana.com Clone

- Developed a portal to play songs from different song categories.
- You can create playlists and add your favourite songs to the playlists.
- **Technologies used:** Python, Flask, Sqlite, HTML, CSS, Bootstrap

Mini SQL Engine

- Developed a system to run a subset of SQL queries using command line interface.
- Processed all variation of select based SQL queries with proper handling of join, distinct, aggregate functions such as max,sum with proper error handling
- **Technologies used:** Python

Terminal based Tic-Tac-Toe Game

- Player Vs Player.
- Computer Vs Player using minMax and Alpha-BetaPruning Algorithm
- **Technologies used:** C++

ACADEMIC ACHIEVEMENTS

- **AIR 352** in Graduate Aptitude Test in Engineering, 2018 (CSE).
- Received **Certificate of Merit** from Secretary, CBSE for outstanding performance in High School

COURSEWORK

- Data Structures and Algorithms
- Operating System
- Theory of Computation
- Computer Network
- Database Systems
- Digital Logic Design
- Discrete Mathematics
- Compiler Design
- Statistical Methods in Machine Learning