AMAN AGRAWAL

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

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aman-agrawal.github.io/resume

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%**

EXPERIENCE

Amazon

SDE-1 **Java, Spring, AWS**

November 2021 – Present **Gurgaon**

- Expanded SAFE-T to newer marketplaces
- Created REST APIs to sync DDB & ElasticSearch data & fetch data from ES to render on SellerCentral Portal
- Scale Seller Configs to AWS-AppConfig
- Created scripts to faster dev tasks & reduce operational load
- Fixed security bugs in multiple services & added encryption/decryption to secure seller data

Synopsys

R & D Engineer - 2 **Tcl, Tkinter**

June 2020 – November 2021 **Hyderabad**

- Developed GUI based SpeedAdapter Software that loads & builds config files, shows user & system LEDs with status monitoring.

Tata Consultancy Services

Remote Intern **Python, Flask, MySQL**

June 2017- August 2017

- Developed a hotel management website. Users can book rooms, search multiple hotels. Hotel Admin can update hotel info.

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

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 avergage 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

SKILLS

- **Programming Languages**
  C/C++, Python, Java
- **Database**
  SQLite, MySQL, AWS-DynamoDB
- **Web, GUI & Game Development**
  HTML, CSS, Javascript, Bootstrap, Flask, Tkinter, PyGame
- **System Design**
  Micro-Service, SpringBoot, SpringMVC
- **AWS**
  Hands on with DynamoDB, SQS, S3, SNS, AWSAppConfig, IAM, CloudWatch, OpenSearch

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