TOM SABU

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EDUCATION

M.Tech. - Computer Science & Engineering

IIIT Hyderabad

2019 – 2021 (expected) **CGPA: 9.22**

B.Tech. - Computer Science & Engineering

School Of Engineering, CUSAT, Kochi

2012 – 2016 **CGPA: 8.88**

Intermediate

St. John's School, D.L.W., Varanasi

2012 **Percentage: 94.10%**

Matriculation

St. John's School, D.L.W., Varanasi

2010 **Percentage: 92.10%**

EXPERIENCE

Software Consultant

Unisys India

July, 2016 - June, 2018 Bengaluru, India

- Developed a Windows application for the client to enhance the record retrieval process using .Net framework.
- Automated the storage of backup,recovery and log files using PowerShell.
- Provided Application Support for the resolution of application and system issues.

SKILLS

- **Programming Languages and Tools**
  C, C++, Python, MySQL
- **Platforms**
  Linux, Windows

COURSEWORK

- Advanced Problem Solving
- Real Time Systems
- Information Retrieval & Extraction
- Data Analytics
- Machine Learning
- Parallel Computing
- Operating Systems

PROJECTS

WikiSearch

- Created a complete search engine by creating an Inverted Index on the Wikipedia Corpus (of 2020 with size 42 GB), that gives you top search results related to the given query within 5 seconds.
- Supports Field queries specific to category/title/infobox.
- **Technologies used:** Python

CRAFTML - MultiLabel Classfication

- A clustering based Ensemble method to classify data into multiple labels for EurLex4k dataset.
- Parallelization of the forests resulted in the faster execution by **3.5** times.
- **Technologies used:** C++.

SimpleRA

- A minimalist, integer-only, Relational Database Management System.
- RDBMS operations such as select, project, cross, rename were implemented for the data stored as pages from a csv file.
- Attribute sorting, hashing,aggregate operations have also been incorporated.
- **Technologies used:** C++

GDriveFS: Mounting Google Drive as a Filesystem using FUSE

- Developed A user-space Python application that links against fusepy and maps the appropriate kernel calls to HTTP requests to Google Drive API and vice-versa.
- **Technologies used:** Python

P2P File Sharing System

- Made use of Socket Programming and Multithreading to build a file sharing system.
- User can download files from its peers after checking its status using a tracker which keeps track of shareable files and online status of peers.
- **Technologies used:** C++.

TomShell: POSIX compatible Mini shell

- Implemented a subset of features of Linux Shell including basic shell operations such as directory operations,pipe and redirection.
- Logging of the past commands executed by the user was also maintained which would be accessible using history command.
- **Technologies used:** C++.