Shreevathsa B K

B Tech Computer Science
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EDUCATION

- **PES University, Bengaluru** *2019-23*
B Tech in Computer science CGPA : 8.94

- **Masters Pre University college, Hassan** *2017-19*
Physics Chemistry Mathematics Biology Percentage: 96.33

EXPERIENCE

- **Intuit** 🔗 *Aug 2023 - Sep 2024*

Software Engineer 1 Bengaluru, on site
  - Worked in **Quickbooks Online,** on a **SpringBoot** service utilizing **GraphQL** for flexible API querying, which uses **PostgreSQL** as the backend database and **Kafka consumer** for message consumption. Developed the APIs for all the CRUD operations and contributed to the kafka consumer implementation
  - Worked on **react** based frontend applications which used **redux** as state management
  - Added Automation test cases in frameworks like **Karate** and **Playwright**
  - Created **Splunk** dashboards and **Wavefront** alerts for monitoring

- **Intuit** 🔗 *Jan-Jul 2023*

Software Engineer Intern Bengaluru, on site
  - Implemented a cutting-edge Import Budget feature for **QuickBooks budgeting** using **React-Redux**, empowering users to seamlessly download a CSV template, input values, and upload data to create budgets directly in Quick-Books. This innovative feature streamlined budgeting processes, enhancing user experience and efficiency.
  - As part of **modernizing a monolithic architecture** into a microservice, fabricated a tool using **Java** and **SpringBoot** that helped to compare two records of different databases, and quickly sync data in case of a parity issue. This helped to minimize risk of errors, and improved data consistency

- **Muxable** 🔗 *Jun-Jul 2022*

Intern New York, remote
  - Crafted a robust Flexible Forward Error Correction (**FlexFEC** 🔗) system using **Golang**, achieving a remarkable **31%** recovery of RTP packets and significantly enhancing data transmission reliability and efficiency

PERSONAL PROJECTS

- **Expense tracker** 🔗

Expense tracker to track daily expenses made using MERN Stack

  - Designed and developed a comprehensive expense management system, empowering users to perform seamless **CRUD** (Create, Read, Update, Delete) operations on expenses. This robust application enabled effortless import and export of expenses via CSV files and featured intuitive visual representations of expense data through interactive graphs. Leveraging a tech stack comprising **Mongo**, **Express**, **React**, **Node**, and **Postman**

- **Mimic HDFS** 🔗

Simulation of Hadoop Distributed File System

  - Simulated a **HDFS** using **Python**, replicating the functionality of a distributed file system. This simulation supported a range of commands, including **put**, **cat**, **ls**, **rm**, **mkdir**, **rmdir**, and **mapreduce**, demonstrating expertise in big data management. Additionally, integrated **Heartbeat** and **Zookeeper** mechanisms to ensure real-time monitoring of data and metadata status, and added fault tolerance measures to recreate lost data using replicas, guaranteeing high availability and data integrity.

- **Huffman-coding-file-compressor** 🔗

Compress and decompress text files using the huffman coding algorithm

  - Utilized **C++** to design and develop a practical lossless data compression tool employing the Huffman coding algorithm, achieving 40% compression ratio.

- **Sortviz** 🔗

A sorting visualizer for visualizing various sorting algorithms

  - Created a interactive Sorting Visualizer using **Python** and **Pygame**, dynamically illustrating the efficacy of various sorting algorithms and significantly enhancing understanding and retention of complex concepts

ACHIEVEMENTS

- **Karnataka CET** State Rank 351

- **ACM X alcoding** Weekly top 5 of ACM X alcoding | certificate 🔗