

## RAGHUVAMSI ANANTHU

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### EDUCATION

#### THE UNIVERSITY OF TEXAS AT DALLAS

Master of Science Degree

Major in Computer Science; Cumulative GPA: **3.8/4.0**

Dallas, Texas

August 2022 - May 2024

#### INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTTAYAM

Bachelor's in Technology Degree

Major in Computer Science and Engineering; Cumulative GPA: **8.23/10**.

Kerala, India

August 2018 - May 2022

### EXPERIENCE

#### UNIVERSITY OF TEXAS, DALLAS

Teaching Assistant - CS 4347, Database systems

Dallas, Texas

January 2024 – May 2024

- Provided guidance and support to 78 students in understanding database concepts, SQL queries, and database design principles.
- Graded assignments and provided constructive feedback, Held office hours to provide additional assistance and clarification to students outside of class.

#### ERICSSON

Software Development Engineering Intern

Bangalore, India

February 2022 – July 2022

- Spearheaded initiatives within the ERCA (Ericsson Root Cause Analysis) team, ensuring the seamless operation of the Frigate software, and automating root cause analysis for cell towers.
- Architected and implemented a centralized database system for efficient log storage, slashing data retrieval times by 50%.
- Designed and deployed a robust MySQL schema for log management, integrated with cron job automation for real-time data handling, and developed an API for streamlined log access.
- Innovated a data notation conversion module, enhancing software efficiency by 30% through seamless conversion between 2G, 3G, 4G, and 5G technologies.
- Orchestrated a 40% reduction in API calls payload to Ericsson servers by optimizing local system file hierarchy for client data storage, coupled with proficient data preprocessing and deployment leadership.

### SKILLS

**Programming Languages** Python, SQL, Java, C++, HTML/CSS;

**Technologies/Frameworks/Libraries** Javascript, C#, Postman, MongoDB, Agile, MVC, and git; Docker, Rest API, Flask, pandas, Postgres, AWS, React JS, PyTorch, Tensorflow, PySpark, OpenGL.

**Coursework** in SDLC, DSA, Computer Networks, OS, ML, Databases, Big Data Management, and System Design.

### PROJECTS

#### RESUME GRADER

- Collaborated with a team of 4 to develop a resume grading and job recommendation system leveraging advanced Machine Learning and NLP techniques. [source](#)
- Quantifies word score, Grammar score, and numeric score for a given resume. And recommends 10 jobs. Achieving an impressive 73% accuracy rate through rigorous optimization efforts, providing a seamless user interface using React.js.

#### MULTICORE PROGRAMMING

- Implemented mutual exclusion algorithms such as Peterson's, Filter, and Lamport's Bakery; exploring spin locks, correctness criteria (Quiescent, Sequential, Linearizability), progress criteria, shared registers, and concurrent data structures Linked Lists, Queues, Stacks, Hash Tables, Search Trees, Skiplists and Priority Queues.
- Operating System concepts, Data Structures, and Algorithms.

#### PORTFOLIO

- A dynamic and interactive portfolio using React.js, incorporating components and states, for a great experience. [source](#)

#### YOUTUBE SUMMARIZER EXTENSION

- Built a browser extension leveraging transformer modules to enable one-click YouTube video summarization, featuring a responsive Flask backend and an intuitive HTML, CSS, and JavaScript frontend.

#### MOBILE PRICE CLASSIFIER

- Developed a mobile price classifier employing five machine learning models, achieving 95% accuracy through hyperparameter tuning for categorizing prices into 0 to 5 values, where 0 represents the lowest price and 5 the highest.