

Raghuvamsi Ananthu

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I am a recent Computer Science graduate with a strong passion for distributed systems and algorithms. Throughout my academic journey, I have honed my skills in software development, algorithm design, and system architecture, working on various projects that have solidified my expertise in these areas

EDUCATION

The University of Texas at Dallas | Dallas, TX

May 2024

Master's in Computer Science | CGPA: 3.7/4

Indian Institute of Information Technology | Kottayam, India

May 2022

B.Tech in Computer Science and Engineering

TECHNICAL SKILLS

Languages: Python, C++, Go, Java, SQL, NoSQL, YAML, HTML, Bash, Makefile.

Frameworks/Concepts: Agile, Pytorch, Flask, Rest API, AI/ML, ReactJS, Helm, Websocket, OOPS, TCP/IP, GraphQL.

Technologies: Linux, Kubernetes, Docker, Git, MongoDB, AWS, GCP, Hadoop, Kafka, GitHub Actions, JIRA.

Coursework: Distributed Systems, Operating Systems, Big Data, Computer Networks, Database Systems.

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern | ERICSSON

Feb 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 developed 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 implemented 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 utilizing advanced regular expressions.
- 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.

PROJECTS

Distributed File Storage System

- Developed a distributed file storage system in the GO language, and created my own peer-to-peer package that contains a TCP connection with a handshake feature with error handling.
- Given a file, it is replicated over multiple servers balancing consistency and availability for the network.

ResuBot

- A Resume Grading and Job Recommendation application that recommends 10 jobs, and provides 3 important Word, Grammar, and Numeric scores for a given resume.
- Incorporated multiple machine learning models achieving 80% accuracy and Multithreaded programming to fasten the application by 50%. A sleek front-end Interface using ReactJS.

SyncDynamics(Multicore Programming)

- Administered mutual exclusion algorithms and concurrent data structures such as LinkedList, Stack, Binary Search Tree Queue, etc, exhibiting proficiency in multi-threading and synchronization techniques in Java/C++.
- Tested with 1 million read-dominated and write-dominated operations achieving better performance than sequential executions. (used the TACC platform to access high-computation resources)

TubeSynopsis

- An extension that works for every YouTube video and provides a summary utilizing advanced NLP techniques such as transformers and removes approximately 50% of irrelevant knowledge.

ACHIEVEMENTS/INTERESTS

- 3-star coder at CodeChef, a 5-star coder at Hackerrank.
- leetcode.com/LieBeARV/ - 500+ problems solved.
- Won 1st rank at the University of Texas Dallas AI club.