Sriram Metla

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Hub

EDUCATION

International Institute of Information Technology, Hyderabad	2024 – Present
M.Tech in Computer Science and Engineering	CGPA: 9.33
VR Siddhartha Engineering College	2019 - 2023
B.Tech in Computer Science and Engineering	CGPA: 9.0
Sri Vidya Junior College	2017 - 2019
12th MPC	GPA: 9.94
St. Ann's High School, Chirala	2016 - 2017
10th ICSE	Percentage: 80%

WORK EXPERIENCE

Lumen Technologies, Bangalore

Nov 2023 - July 2024

Software Development Engineer

- Developed asynchronous APIs in Node.js to interact with multiple systems, streamlining network service provisioning and enhancing system efficiency.
- Collaborated on a full-scale migration to a microservices architecture, significantly boosting scalability and system resilience.
- Designed and integrated RESTful APIs to enable seamless communication between microservices and external systems.

PROJECTS

P2P File Sharing System (C++, Socket Programming, Multithreading)

- Engineered a BitTorrent-like system featuring both tracker and client functionalities to optimize file transfer speeds.
- Utilized socket programming and multithreading to efficiently manage 100+ concurrent connections.
- Used hashing techniques to check for data integrity in the received files and allows for resending the corrupted data to ensure a seamless file transfer.

Seam Carver (C++, OpenCV)

- Developed a content-aware image resizing tool using advanced computer vision techniques.
- Implemented a seam carving algorithm with dynamic programming for faster processing.

Mini Version Control System (C++, ZSTD)

- Developed a lightweight Git-like version control system to track changes in files and directories.
- Implemented core Git functionalities such as repository initialization, file staging, commit history, and state restoration.
- Used SHA-1 hashing for content integrity verification and ZSTD compression for efficient storage.

POSIX Shell Implementation (C++)

- Built a custom shell emulating UNIX features using C++ and POSIX system calls.
- Implemented process management, I/O redirection, and command piping functionalities.
- Enhanced user experience with features such as command history navigation and tab completion.

Research Publication Impact Analyzer (Node.js, MongoDB, Axios, Chart.js)

- Developed a microservice application to analyze the impact of research publications via citation graph analysis.
- Employed caching, rate-limiting, and piggybacking techniques to efficiently gather large volumes of data from CrossRef and Semantic Scholar APIs.
- Integrated multi-source data verification and cleaning to present actionable metrics.

SKILLS

Languages: C, C++, Java, Python, JavaScript

Frameworks & Libraries: Node.js, Spring Boot, Django, OpenCV, Chart.js, Axios, Netflix Eureka

Tools: Git, Kafka

Databases: MySQL, MongoDB, Oracle SQL

Concepts: Microservices, RESTful APIs, Socket Programming, Multithreading

CERTIFICATIONS

- DevNet Associate (Cisco, 2022)
- Linux Essentials (Cisco, 2021)
- Python Essentials (Cisco, 2021)
- C++ Specialization (Coursera, 2021)

PUBLICATIONS

- SMMap: Soil Moisture Content Mapping/Estimation Using Synthetic Aperture Radar (SAR) Data, ICSSIT, 2023.
- Automatic Certificate Verification using Computer Vision, IDCIoT, 2023.