

Mohan Kumar R

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Professional Summary

I am a software developer specializing in distributed systems technologies, with expertise in C++, Golang, JavaScript, Java, and Python. I am passionate about building P2P networks and solving real-world challenges. Collaboration and continuous learning are key aspects of my approach to software development.

Technologies

Languages: Golang, C++, C, SQL, JavaScript, Java

Technologies: libp2p, IPFS, gRPC, REST, MongoDB, SQLite, Grafana, Prometheus, Win32

Experience

Software Engineer, ManageEngine (part of Zoho Corp)– Chennai June 2023 – Present

- Implementing a Peer-to-Peer (P2P) file system to eliminate the need for centralized distribution servers, significantly reducing deployment costs and internet bandwidth expenses.
- Used HTML, CSS, and REST API to create an endpoint management system that helps monitor and control systems for P2P testing.

Academic Projects

Container-Based Lab as a Service

HTML, CSS, PHP, JavaScript, Docker

- Developed a website providing Linux shell environments and coding environments with pre-configurations and installed dependencies using secure shell service and Docker technology.
- Users can save their work and resume later.
- A technology-based virtual lab solution that provides hassle-free access to lab environments from anywhere, anytime.

Smart Home

Java, XML, C++, Arduino

- Developed a mobile application to toggle fan and light using IoT devices with a client-server architecture.
- Implemented multithreading to receive and handle multiple requests seamlessly.

Terrestrial Delivery Drone

Python, Arduino, HTML, CSS, JavaScript, Raspberry Pi

- Developed a line-following robot that can follow a path to deliver items and return to the original path.
- Used Raspberry Pi with IoT sensors to build and control the robot.

Education

Thiagarajar College of Engineering, B.Tech in Information Technology.

July 2019 – May 2023

- CGPA: 9.13/10.0

Hobbies

- Cycling
- Watching Sci-Fi movies and series.
- Listening to music.
- Playing games.