

DARSHAN TRIPATHI

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SUMMARY

A dynamic Backend Developer with **1.7 years** of experience and an M.Tech in CSE from **IIIT-Hyderabad**.

EDUCATION

IIIT - Hyderabad

M.Tech in CSE

CGPA - 7.8

Aug. 2021 – April 2023

BVM Engineering College - Gujarat

B.Tech in IT

CGPA - 8.95

Jun. 2017 – May 2021

EXPERIENCE

Kore.Ai

Jun 2023 – Present

Associate Engineer - Node.JS, Redis, MongoDB, RabbitMQ, Web-sockets

- Designed and developed a CRON job to periodically fetch all 60+ supported voices and dialects from vendors such as Google, Microsoft, and AWS.
- Streamlined environment setup by developing **REST API** scripts that generated configuration blocks, reducing the need for manual intervention & reducing setup time by **90%**
- Addressed **critical issues** by quickly analyzing logs and troubleshooting during live calls, resolving **80%** of technical issues on the **first call**, and ensuring client satisfaction.

PROJECTS

Mini Torrent Sharing System - Linux, C++, Multi-threading, SHA-1 Hash

- Designed a group-based file-sharing system replicating **Torrent**, with limited but essential features.
- Ensured **reliable peer-to-peer communication** and seamless collaboration for group file transfers.
- Used **TCP and multi-threading** to download multiple pieces of the same file from different users.

Node.js Scheduler for Reducing Twilio Billing Costs - NodeJS, MongoDB, RabbitMQ, Redis

- Built and deployed a Node.js scheduler to identify and remove inactive Twilio phone numbers, reducing unnecessary billing costs for the organization.
- Leveraged MongoDB queries and aggregation pipelines across multiple collections to detect numbers with no activity for 6+ months, sending **automated email warnings** to users before deletion.
- Reduced Twilio-related expenses by approximately **25%** by automating the identification and removal of unused phone numbers, ensuring operational efficiency and cost savings.

Linux-based File Explorer - Linux, C++, System calls, Termios Library

- Implemented a Linux-based **File Explorer** using system calls, which works in **normal/command mode**.
- Normal Mode:** Provided a GUI to explore the current directory and navigate around it using arrow keys.
- Command Mode:** Provided a CLI where the user can write commands to open, move, copy, and search files.

TECHNICAL SKILLS

- Languages:** C/C++, JavaScript, HTML, CSS, Java, Python, Shell scripting.
- Frameworks:** Node.js.
- Databases:** MongoDB, SQL.
- Tools:** Git, VS Code, Grafana, Loggly.
- Coursework:** Operating Systems (OS), Data Structures, and Algorithms (DSA) for Problem Solving.

ACHIEVEMENTS

- Secured **98.31%ile** in GATE CSE 2021 on the **first attempt**.
- Awarded **Spotlight Player twice** at Kore.Ai for implementing new features.
- Honored as **Customer Champion** in Quarterly Rewards for exceptional contributions to client success.