SURENDHAR K

Chennai, India

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SKILLS

- **Programming Scripting:** Python, FastAPI, C, SQL, HTML & CSS, Bash, Automation-Scripting
- **Tools & Technologies:** Git, Linux, Docker, REST APIs
- **Data Technologies:** MYSQL, Cassandra, Spark & Pyspark, ETL pipelines, Databricks

EDUCATION

Bachelor of Engineering in Computer Science and Engineering 2021 – 2025

SRM Valliammai Engineering College, Chennai **CGPA: 8.6**

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Operating System, Data Mining and Warehousing, Software Engineering, Cloud Computing

Class 12 (AISSCE), PCM-Computer Science 2020 – 2021

N.S.N Memorial Senior Secondary School, Chennai **94.2**%

EXPERIENCE

Junior Engineer Jan 2025 – currently

MulticoreWare Inc, Chennai

- Kernel-level Development – Device Driver Development– Embedded Linux – Docker – Scripting
- Developed Linux device drivers for the TI J721E SoC and automated the entire driver integration process, including Makefile, Kconfig, and kernel configuration modifications.
- Designed and implemented automation scripts to fetch requested drivers, configure dependencies and build them within a Dockerized environment; Containerized the complete kernel module build pipeline using Docker, enabling isolated and repeatable driver builds, thereby reducing Manual efforts.

Intern Jun 2024 – july 2024

Infinite Computer Solutions, Chennai

- Built a query-response platform integrating Gemini API to retrieve answers from databases and documents. Gained hands-on experience in backend development, flexible search handling, and API integration.

PROJECTS

Mood Assessment and Evaluation of Virtual Meetings

- Emotional Analysis using DL – Python – OpenCV – Pandas – TensorFlow/Keras – Dlib – FER2013 dataset
- Uses facial emotion recognition and gaze detection to assess participants' emotional state and attentiveness.
- Provides live feedback and post-meeting reports with engagement metrics for virtual meeting optimization.

FitForm: Posture Analysis and Correction

- Python – OpenCV – Pandas/Numpy – MediaPipe – TensorFlow/Keras
- Utilizes computer vision and ML models to assess posture correctness by analyzing real-time webcam video, trained on a custom-labeled dataset, and provides instant feedback.

COURSES & CERTIFICATION

- **Data Analysis with Python** – Coursera, issued Feb 2023
- **Complete Python Bootcamp** – Coursera, issued Aug 2022