SARAVANA KUMAR M

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EDUCATION

- **Mepco Schlenk Engineering College** — Sivakasi, Tamil Nadu
  Bachelor of Engineering - Electrical and Electronics Engineering; CGPA: 7.0 — July 2019 - April 2023
  Courses: Electrical Machines, Digital Signal Processing, Control Systems, Python

- **Devanger Higher Secondary School** — Aruppukottai, Tamil Nadu
  Higher Secondary Certificate; Percentage: 78% — July 2017 - March 2019
  Courses: Computer Science, Physics, Chemistry, and Maths

- **Devanger Higher Secondary School** — Aruppukottai, Tamil Nadu
  Secondary School Leaving Certificate; Percentage: 94.5% — July 2015 - March 2017
  Courses: Maths and Science

SKILLS SUMMARY

- **Programming Languages**: Python, JavaScript.
- **Web Technologies**: HTML, CSS, React JS.
- **Framework**: Django.
- **Database Technologies**: SQL.
- **Operating Systems**: Linux (Basic CLI usage).
- **Soft Skills** : Problem Solving, Technical Communication, Team Collaboration.

EXPERIENCE

- **Personal Development Projects & Learning Experience**
  Ongoing
  - Developed multiple Python-based applications as part of self-learning and project work, gaining proficiency in object-oriented programming, file handling, and data structures.
  - Built web applications using **Django**, integrating front-end technologies like **HTML**, **CSS**, and **JavaScript** to create responsive user interfaces.
  - Used **Oracle SQL** and basic **MySQL** for storing, querying, and managing structured data in projects.
  - Containerized Python applications using **Docker** for streamlined development and deployment.
  - Version-controlled projects using **Git**, hosted on GitHub, and practiced collaborative coding through pull requests and issue tracking.
  - Gained familiarity with the Linux environment—used essential terminal commands for navigation, file handling, and system checks.

- **Dell Technologies – HPC Engineering Solutions Team** — Bangalore, India
  Internship Project: AI Workload Optimization and System Deployment — June 2024 – June 2025
  - Completed a 12-month internship focused on optimizing AI workloads and system-level deployment in enterprise-scale high-performance computing (HPC) environments.
  - Participated in configuring and validating Dell PowerEdge servers for AI applications, including handling **BIOS, iDRAC**, and performing **firmware upgrades**.
  - Engaged in system setup for distributed computing and AI workflows, including **RAID setup**, PXE boot, and remote provisioning of compute nodes.
  - Supported server hardware updates involving **CPUs, DIMMs, SSDs, and network interface cards** to ensure optimal AI workload performance.
  - Documented deployment procedures, suggested automation strategies, and collaborated with teams to improve AI infrastructure readiness and scalability.

PROJECTS

- **IOT Based Smart Helmet For Alcohol Users**: The project prevents riders from starting the vehicle without wearing a helmet or under the influence of alcohol. It also sends SMS notifications to designated contacts using the IFTTT applet service.
- **Interleaved Boost Converter for Solar-Grid Integration**: Designed and implemented an Interleaved Boost Converter with a Voltage Multiplier circuit for efficient solar-grid integration.
- **E-Commerce Webpage (Amazon Replica)**: Developed a responsive replica of the Amazon webpage using HTML and CSS. Applied responsive design principles for compatibility across devices.
- **Portfolio Website**: Created a personal portfolio webpage using HTML and CSS to showcase projects and technical skills.