

DHARSHAN C S

Backend-Focused Software Developer | Python, Flask, Distributed Task Systems

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PROFESSIONAL SUMMARY

Backend-focused software developer with hands-on experience building role-based, data-driven web applications. Strong foundation in Python, Flask, REST APIs, and asynchronous task processing using Celery and Redis. Experienced in database modeling, backend system design, and building scalable admin-user workflows. Comfortable owning features end-to-end, from schema design to API implementation and frontend integration.

EDUCATIONS

Indian Institute of Technology Madras

Apr 2023 - Present

Bachelor of Science in Data Science and Applications

Chennai

Completed diploma level coursework covering programming, data structures, databases, and applied data analysis alongside independent software projects.

Sant Longowal Institute of Engineering and Technology

Nov 2022 - May 2026

Bachelor of Engineering in Mechanical Engineering

Punjab, India

Undergraduate engineering program with parallel focus on software development and backend engineering projects.

PROJECTS

ParkSpace v2 | 🌐 Github

Oct 2025 - Dec 2025

Backend / Full-Stack Developer

- Built a full-stack parking management system with distinct admin and user workflows enforced through Role-Based Access Control (RBAC).
- Designed REST APIs consumed by a Vue.js frontend, supporting ~300–500 concurrent users under simulated conditions.
- Implemented Celery and Redis for asynchronous processing of CSV exports, scheduled emails, and background reports.
- Added Redis-based caching for dashboard endpoints, reducing repeated database queries by ~40%.
- Designed a normalized schema covering users, roles, parking lots, slots, bookings, and pricing rules.

Technologies / Tools Used : Python, Flask, PostgreSQL, Redis, Celery, Vue.js

Event Management Dashboard | 🌐 Github

Nov 2025 - Dec 2025

Backend Developer

- Developed a role-based event management platform with organizer and attendee dashboards.
- Implemented live registration tracking using lightweight REST endpoints and JavaScript polling.
- Designed server-side notification logic for event updates and reminders.
- Structured the Flask application using Blueprints and access-control decorators for modularity and maintainability.

Technologies / Tools Used : Python, Flask, SQLite, Bootstrap, JavaScript

Parking System v1 | 🌐 Github

Oct 2023 - Nov 2024

Backend Developer

- Designed a relational database schema enforcing referential integrity across bookings and parking resources.
- Implemented transactional booking workflows with time-based pricing and lifecycle state management.
- Built CRUD operations and an admin analytics dashboard to monitor usage trends.

Technologies / Tools Used : Python, Flask, SQLite, Jinja2, HTML

SKILLS

Programming Languages : C++, Python, JavaScript, C, SQL

Frameworks & Libraries : Flask, Vue, Bootstrap, Jinja2

Tools & Platforms : Git, Linux, Docker, Celery

Databases : PostgreSQL, SQLite, Redis

Languages : English, Tamil, Hindi, Kannada