

HARENDRA SINGH BHADOURIA

Software Developer

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Professional Summary

Detail-oriented Software Developer specializing in backend development, API engineering, and scalable system design. Skilled in Python (FastAPI), Ruby on Rails, SQL, multi-tenant systems, automation, and AI integrations. Experienced in building appointment platforms, subscription systems, and role-based workflow applications with secure authentication, payment flows, and optimized database performance. Strong focus on clean architecture, REST APIs, and delivering high-quality backend solutions.

Experience

Craft & Code Solutions Pvt. Ltd.

Gwalior, MP, India

Python Developer

06/2025 - Present

- Built multi-tenant Appointment Management System with Fast API, PostgreSQL, AI assistant & JWT authentication
- Designed domain-based portals (Patient Portal, Reception Dashboard, Admin Dashboard)
- Developed service module with free/paid service management, doctor assignment & slot generation logic
- Integrated third-party AI services, SMS APIs, email notifications & payment gateway flows
- Implemented booking automation, dashboard analytics, tenant onboarding and calendar-based slot booking

Poolstack Technology Pvt. Ltd

Gwalior, MP, India

Software Developer

07/2023 - 12/2024

A technology company focused on creating innovative solutions

Developed **post-trade platform tools** and **back-office modules**, strengthening operational workflows.

Designed and implemented **scalable backend systems**, focusing on clean architecture and high performance.

Used **ORM (Object–Relational Mapping)** for database interactions to build clean, maintainable, and efficient data models.

Optimized **SQL queries** and improved processing speed using **SQLite** and **PostgreSQL** databases.

Built and tested RESTful APIs, using **Postman** for API validation, debugging, and performance testing.

Worked as a backend developer on the organization's **CRM project**, developing robust APIs for customer management and workflow automation.

Delivered multiple backend projects from development to deployment, collaborating with cross-functional teams to meet timelines and quality standards.

Indi Secure PVT. LTD

Bhopal, MP, India

Full Stack Developer Intern

07/2022 - 01/2023

Designed and developed a full-featured Employee Management System web application using **Spring Boot**, **Hibernate**, and **MySQL**.

Implemented RESTful APIs to handle CRUD operations for employee records, including employee registration, updates, search, and deletion.

Utilized **JDK 1.8** and Java-based backend architecture for efficient data processing and application logic.

Integrated Hibernate ORM for robust and scalable database interactions, ensuring data consistency and optimized performance.

Employed layered architecture (Controller-Service-DAO) and followed best practices for maintainability, modularity, and testing.

Technical Skills

Programming Languages: JavaScript, Python, Ruby, HTML, CSS

Databases: MySQL, PostgreSQL, MongoDB

Frameworks & Tools: Ruby on Rails, Fast API, Django, Bootstrap 5, Firebase, Render, Postman, Git, GitHub, JWT Auth, Linux, Docker, Swagger Docs, Vapi AI API Integration, twilio,

Concepts: REST APIs, DOM Manipulation, JSON

Education

University Institute of Technology, RGPV

Master's of Computer Application

Govt. Shyamla Pandiya College, JU

Bachelor's of Science in Computer Science

Bhopal, Madhya Pradesh, India

08/2021 - 05/2023

Gwalior, Madhya Pradesh, India

08/2018 - 05/2021

Projects

Employee Leave Management System | Fast API, JWT, PostgreSQL

- Implemented secure JWT Authentication with role-based access (Employee / Manager / HR)
- Employees apply leave, check balance & track approval status
- Managers approve/reject requests and HR monitors complete logs
- Added admin dashboard for user management & leave policies
- Automated email notifications for each status update

Appointment Management System | Multi-Domain, Fast API, AI Assistant, Payment Gateway

Multi-Tenant Architecture

- Each tenant receives a dedicated domain
- Portals include Patient Portal, Reception Dashboard & Admin Dashboard

Main Features

- Tenant registration & onboarding
- Service Management: Add/update/delete services (Free or Paid)
- Doctor assignment with schedule & availability
- Patient creation & updates per tenant
- Calendar-based slot booking with real-time slot generation
- Appointment booking available from Reception Dashboard and Patient Portal
- Payment Modes: Payment Gateway or Cash
- Email notifications for booking, cancellation, status changes & payment links

AI Assistant

- Performs same tasks as Reception Dashboard and Patient Portal
- Checks slots, books appointments, fetches and updates patient info
- Integrated with third-party AI service & international numbers

Additional Highlights

- Real-time dashboards for appointments & payments
- Automated reminders & payment link generation
- Clean layered architecture with tenant-based data isolation

Gymanity | Python Fitness Platform

Built a Python-based fitness subscription platform where users can register/login, purchase plans (monthly, quarterly, half-yearly, yearly), and chat with trainers using allocated credits. Developed secure authentication, subscription handling, chat module, and backend APIs with proper ORM-based database management.

- **User Authentication System:** Implemented secure user registration and login with role-based access (user/trainer).
- **Subscription Module-** Designed subscription plans: **1 month, 3 months, 6 months, and 12 months.**
- **Trainer Chat System-** Built a chat feature where users can interact with trainers according to their available credits.
- **Backend Architecture-** Developed scalable backend APIs using Python. Managed database tables for users, subscriptions, chat logs, and credit consumption.
- **Payment Integration-** Integrated subscription purchase workflow & status update.

Neil Proclaimed | Task Management Application | Python FastApi

Neil Proclaimed is a **role-based health & wellness task management system** designed to manage patient care inside a hospital. When a patient is admitted, the system automatically assigns a solicitor/manager along with additional medical roles to ensure complete care until recovery.

- **Role-Based Access System-** Implemented 5 hospital roles (e.g., Solicitor, Manager, Nurse, Attendant, Admin) with permissions assigned according to responsibilities. Each role can perform different actions based on patient condition and workflow stage.
- **Patient Admission & Assignment-** When a patient registers, the system assigns a **solicitor** automatically. Additional caretaking roles are allocated to manage tasks for the patient until recovery.
- **Task & Workflow Management-** Created a structured system where roles update patient tasks, health progress, reports, and status. Designed workflows where each role handles specific duties in sequence.
- **Health Monitoring Module-** Added features to track patient wellness, reports, checkup updates, and recovery status.
- **Backend Development-** Built modular APIs for patient registration, role assignment, task allocation, and status updates. Integrated database models for patient, roles, assignments, and task tracking.

LSB Image Steganography | Python GUI

Tool for secure text-in-image hiding