

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.

Python Developer

Gwalior, MP, India

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

Software Developer

Gwalior, MP, India

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

Full Stack Developer Intern

Bhopal, MP, India

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

Bhopal, Madhya Pradesh, India
08/2021 - 05/2023

Govt. Shyamlal Pandviya College, JU
Bachelor's of Science in Computer Science

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