

SAJAN KUMAR SAHU

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GitHub: github.com/Sajan-Kumar-Sahu

Portfolio: sajan-webprofile.netlify.app

Profile Summary

Recent MCA graduate specializing in backend development with .NET. Developed a hotel booking and management system from scratch, working with ASP.NET Core, Entity Framework, and relational databases.

Technical Skills

Programming Languages: C#, Java

Frameworks & Libraries: ASP.NET Core (Web API, MVC, Identity), Entity Framework Core, RESTful APIs

Databases: Microsoft SQL Server (T-SQL), PostgreSQL, Database Design, Stored Procedures

Tools & Platforms: Docker, Git, GitHub, Visual Studio, Visual Studio Code, Postman, Linux OS

Software Engineering Practices: SOLID Design Principles, CQRS Pattern

Academic Projects

Gradiscent - Learning & Workforce Management Platform

Sep 2025 - Present

- Developing multi-role learning and workforce management system targeting students, teachers, employees, and organizations using **ASP.NET Core Web API**
- Currently developing Student module** featuring customizable timetable creation, learning roadmap builder with milestone tracking, and digital note management
- Designed **database architecture with 12+ tables** handling user authentication, roles, timetables, learning paths, and notes using PostgreSQL and EF Core
- Implementing **role-based authorization with JWT** to enable future integration of teacher, employee, and organization modules
- Tech Stack:** ASP.NET Core 8, EF Core, PostgreSQL, Angular, JWT | **GitHub:** github.com/Sajan-Kumar-Sahu/Gradiscent-backend

InnSpiration - Hotel Booking & Management System

Jan 2025 - Apr 2025

- Developed full-stack hotel booking application with **20+ RESTful API endpoints** handling user authentication, hotel search, reservations, digital guest verification, and payment processing
- Designed **normalized database schema with 10+ tables** managing relationships between users, hotels, rooms, bookings, and transactions
- Built **real-time room availability** feature with dynamic pricing engine that calculates rates based on booking dates and room types
- Integrated **Stripe payment gateway** with webhook handling for payment confirmations and failure scenarios
- Collaborated with **2 frontend developers** using Git feature branching and pull request reviews
- Tech Stack:** Spring Boot, JPA/Hibernate, PostgreSQL, React, JWT | **GitHub:** github.com/Sajan-Kumar-Sahu/InnSpiration-version-2.0 | **Demo:** innspiration-booking.netlify.app

Education

Master of Computer Applications | Chandigarh University, Punjab | 7.5 CGPA

Jul 2023 - May 2025

B.Sc Computer Science (Honors) | Govt. Autonomous College, Odisha | 8.1 CGPA

Aug 2019 - Jun 2022

Certification

ASP.NET Core Web Development | Microsoft Learn

In Progress

Postman API Fundamentals Student Expert | Postman

Feb 2025

DSA with Java | Apna College

Jan 2024