

Vivek Yadav

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EDUCATION

Chandigarh University

Bachelor of Engineering in Computer Science (CGPA: 8.04)

09/2020 - 06/2024

Mohali, Punjab

EXPERIENCE

Belzabar Software Design Pvt. Ltd

Backend Developer

03/2024 - 08/2025

Remote, Delhi

- Tech Stack - PostgreSQL, SpringBoot, Redis, Apache Kafka
- Constructed in-app notification system using Java and PostgreSQL; delivered 5000+ real-time user notifications daily, ensuring 99% of users received critical updates within government software.
- Enhanced form submission performance by approximately 70% (from 8–10s to 2–3s) through asynchronous processing, backend optimization, and query tuning.
- Implemented efficient filtering and sorting for large datasets (10K–15K records) and managed smooth environment migrations across development, staging, and production.
- Designed robust role-based authorization and permissions system, ensuring secure and accurate access control for 2500+ users across 5+ user roles, with zero reported permission issues post-deployment.

PROJECTS

PulsePoint - Hospital Management System [🔗](#) | Spring Boot, PostgreSQL, Redis, Apache Kafka, Docker

- Built a full-stack hospital management system with Spring Boot, React.js, and PostgreSQL, following RESTful API architecture to manage 1000+ patient records efficiently.
- Developed an OTP-based user registration system using Redis, reducing registration latency by 60% and handling 200+ concurrent requests.
- Integrated email notification service using Spring Mail and Kafka consumers for real-time alerts, reducing notification delivery time by 70%.
- Combined JWT-based authentication and Spring Security, ensuring secure access to data across 10+ endpoints.

MerchantAI - Merchant Analytics Platform [🔗](#) | Spring Boot, PostgreSQL, Stripe, Gemini AI

- Developed a backend merchant platform with product catalog, order management, and Stripe-based payment workflows using Spring Boot and PostgreSQL.
- Implemented sales and inventory analytics including revenue trends, top products, and stock levels using SQL queries.
- Integrated AI-driven business insights using Google Gemini API to interpret analytics data with prompt guardrails and fallback error handling.

Photogram – Social Media Web App [🔗](#) | React.js, Node.js, Express.js, MongoDB, Cloudinary, JWT, Bcrypt.js

- Architected a social media platform utilizing the MERN stack and incorporated secure JWT authentication, enabling the storage of over 100 images through Cloudinary integration.
- Created core social features including post creation, likes, comments, follows, and secure authentication with JWT and Bcrypt.js, serving 10+ concurrent users without performance degradation.

TECHNICAL SKILLS

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

Backend: Spring Boot, Node.js, Express.js, Apache Kafka, Docker

Frontend: React.js, Bootstrap

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firestore

Developer Tools Git, Postman, PgAdmin, Visual Studio, Sublime Text, Firebase

ACHIEVEMENTS

- Selected for the prestigious “Kargil Batch” at Chandigarh University — ranked among the top 150 out of 5,000+ students based on coding and analytical performance.
- Solved 1200+ problems across platforms such as LeetCode, CodeChef, and HackerRank; awarded 5-star coder status on HackerRank.
- Secured Global Rank 340 in CodeChef Starters 99
- Finalist in TechGig Code Gladiators Hackathon 2022, selected from thousands of participants nationwide.
- Achieved 91 percentile in JEE-Mains 2020, ranking among the top 10% of over 1 million test-takers nationally.