

Yashraj Singh

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Professional Summary

Entry-level Software Engineer and BCA graduate focused on backend development with Java, Spring Boot, and RESTful services, with strong fundamentals in object-oriented design, data structures, and relational databases. Hands-on experience building software solutions for real-world problems involving secure APIs, payments, and real-time communication. Interested in working on scalable systems and services that improve customer-facing products.

Skills

Languages: Java, Python, JavaScript, SQL, C#, C++

Backend: Spring Boot, Node.js, Express.js, REST APIs, JWT Authentication

Frontend: React.js, HTML, CSS

Databases: MySQL, PostgreSQL

Cloud: AWS (EC2, S3 basics), Microsoft Azure (fundamentals)

Projects

MediConnect — AI-Enabled Healthcare Platform

- Accomplished **end-to-end digital healthcare workflow** as measured by 30+ simulated users completing appointments and consultations, by building a React + Node.js platform with backend services implemented using Spring Boot and REST APIs.
- Reduced **manual appointment coordination by 70%** as measured by admin handling time, by implementing real-time scheduling and role-based dashboards.
- Enabled **100% digital payments and receipts** as measured by transaction success logs, by integrating Razorpay API with automated invoice generation.
- Added **AI patient query support** as measured by 50+ pre-consultation interactions, by integrating Hugging Face Inference API for healthcare chat assistance.

ESCAPE — OTT Streaming Platform

- Improved **content accessibility** as measured by testing across 3 device types, by developing a responsive OTT web app using React with backend services implemented using Spring Boot and Node.js.
- Reduced **manual content control by 60%** as measured by admin actions, by building an admin dashboard for user and media management.
- Achieved **smooth video playback for 20+ concurrent users** as measured during testing sessions, by optimizing frontend rendering and backend APIs.

Online Examination System

- Reduced **manual evaluation workload by 80%** as measured during academic simulations, by developing an automated exam and result processing system using ASP.NET and MySQL.

Blood Bank Management System

- Improved **donor and inventory search speed by 50%** as measured by query response time, by implementing database-driven stock and donor management in PHP and MySQL.

NVSP Voters Portal Clone

- Digitized **voter registration workflows** as measured by 100+ simulated form submissions, by building secure data-driven registration and verification modules.

Education

Bachelor of Computer Applications (BCA)

2022 – 2025

Techno Main Salt Lake, Kolkata

Certifications & Training

Ramakrishna Mission Shilpamandira Computer Centre (RKMSSCC):

- Certificate in Computer Applications — (Grade: A)
- Certificate in Computer Programming & Applications — (Grade: A)
- Certificate in Advanced Computer Programming & Applications — (Grade: A+)
- Certificate in Software Engineering — (Grade: A)