

Shivansh Agarwal

shivanshagrawal21@gmail.com | +91 8561825560 | LinkedIn | GitHub | Portfolio | LeetCode

Backend-focused Full-Stack Developer | Java | Spring Boot | FastAPI | React | Workflow Automation

Experience

MarConPra™ / DainikBhaskar.ai

Apr 2026 – May 2026

AI Full Stack Developer

- Designed and developed backend APIs for users, courses, payments, videos, live lectures, recordings, and learning content management using Fastify, FastAPI, Python, and Clerk Authentication.
- Built scalable payment and multimedia API workflows, supporting 500+ concurrent learners during peak usage without system disruptions.
- Optimized content-fetching and video-access flows, reducing loading time by 20% and improving user experience across live and recorded learning sessions.
- Improved backend architecture, validation, and error handling, reducing system error rates by 30% and ensuring stable performance during high-traffic sessions.

Tennr

Dec 2025 – Feb 2026

Implementation Engineer

- Implemented 15+ client-specific healthcare automation workflows across distinct environments, saving 10–20 minutes per referral and reducing processing errors by 25–30% for 100+ end-users.
- Built complex JSON-based workflows with 5–12 conditional branches and 10–25 data transformations for validation, routing, and system integration.
- Debugged and resolved 50+ workflow issues by analyzing logs, failed cases, and edge scenarios, reducing recurring workflow errors by 25–30%.
- Stabilized healthcare automation processes by addressing root causes of workflow failures, improving processing rates by 25–30% and reducing manual rework.

MarConPra™

Oct 2025 – Dec 2025

Application Developer

- Architected FastAPI and WebSocket backend to stream speech, AI responses, and real-time updates across 30+ product demos.
- Orchestrated an AI-driven React Native console with Expo, integrating AssemblyAI transcription, LLM tone classification, and 15 multi-role conversation flows.
- Reduced AI processing time by 30% through end-to-end pipeline optimization for audio capture, transcription, and LLM-based tone classification.

Euonus IT, Jaipur

Jan 2025 – May 2025

Full Stack Developer

- Constructed server-side applications utilizing Java and Spring framework, achieving 99.99% uptime and reducing server response time by 30% under peak traffic conditions through optimized code.
- Transitioned legacy MySQL database to a sharded architecture, increasing write throughput by 40% and improving application scalability to handle a 50% surge in user traffic, as the most junior member.
- Engineered RESTful APIs leveraging Spring Boot and Java for secure data transmission between services, cutting average request latency by 150 ms and boosting overall application responsiveness.

Indian Institute of Technology Jammu, Jammu

May 2023 – Jul 2023

Web Developer Intern

- Launched an immersive 3D portfolio project, integrating JavaScript, React, and Vite to deliver interactive elements and animations that increased user session duration by 25%.

Projects

Payment and Contact Manager

Java, Spring Boot, Hibernate, Maven, MySQL

- Developed a Contact Management System: Designed and implemented a web application to manage user contact information, including functionalities for adding, updating, and deleting contacts, reducing manual record-keeping efforts by 70%.
- Integrated Payment Features: Configured a secure and efficient payment module to facilitate seamless transaction management, enabling users to complete transactions 40% faster and maintain clear records.

TalentForge Job Portal

Java, Spring Boot, Spring Security, JWT, JPA, MySQL, Docker

- Spearheaded the development of a backend job portal, implementing JWT authentication that reduced unauthorized access attempts by 95%.
- Executed the deployment of a production-ready job portal backend leveraging Java, Spring Boot, Spring Security, Spring Data JPA, MySQL, and Docker, improving job posting and application processing efficiency by 40%.

Technical Skills

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

Backend: Spring Boot, Spring Security, Node.js, GraphQL, JWT, REST APIs, FastAPI, JDBC, JPA, Hibernate, Microservices, WebSockets

Frontend/Mobile: React, React Native, Expo

Databases: MySQL, SQL, Database Design, Query Optimization

Tools/Cloud: Git, GitHub, Docker, Postman, Maven, AWS, IntelliJ, VS Code

Core CS: DSA, OOP, Multithreading, Collections, Exception Handling, Design Patterns Basics

Education

JK Lakshmipat University, Jaipur

Sep 2021 – Jun 2025

B.Tech in Computer Science Engineering

International Institute of Information Technology, Hyderabad

Jan 2023 – May 2023

B.Tech CSE Exchange Program