

SHUBHAM YADAV

Software Engineer | Java Developer | Distributed Systems | Full-Stack Development

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🐙 [Github](#)

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🔗 [LeetCode](#)

Professional Summary

Computer Science undergraduate with strong foundations in **Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Database Management Systems**, and **Computer Networks**. Experienced in building **scalable backend systems, distributed applications**, and **AI-powered full-stack platforms** using **Java, Spring Boot, React**, and **Next.js**. Solved **600+ DSA problems** on LeetCode and developed production-oriented applications involving **Redis, Kafka, WebSockets, RAG**, and **Spring AI**.

Technical Skills

Languages: Java, JavaScript, SQL

Core CS: Data Structures & Algorithms, OOP, OS, DBMS, Computer Networks

Backend & Distributed Systems: Spring Boot, Spring Security, REST APIs, OAuth2, Microservices, Redis, Apache Kafka, WebSockets, STOMP

Frontend: React, Next.js, React Query, Tailwind CSS

AI: Spring AI, Retrieval-Augmented Generation (RAG), Agentic AI, LLM APIs, Vector Search

Databases: PostgreSQL, MySQL, MongoDB, pgvector

Developer Tools: Git, Docker, Jenkins, CI/CD Pipelines

Experience

SkyInvestments

Jan 2026

Freelance Full-Stack Developer

Remote

- Delivered a production-ready Finance Education platform translating stakeholder requirements into scalable full-stack features.
- Implemented role-based authentication with **NextAuth** and **Redis caching**, reducing repeated database access and improving content delivery performance.

Projects

BotCraft – AI Bot/Agents SaaS

[GitHub](#)

- Built a **SaaS platform** that enables users to create and manage custom AI bots, supporting both **standard chatbots** and **RAG-powered bots** with configurable instructions, context, and knowledge sources.
- Engineered the backend using **Spring Boot, Spring AI, Redis, PostgreSQL/pgvector**, with document chunking, embeddings, vector retrieval, and Redis-backed conversation history for low-latency contextual responses.
- Developed a **Next.js + React Query** frontend with streamed LLM responses using **Server-Sent Events (SSE)**, query caching, hydration, and persistent client-side chat state.

Chatty – Real-Time Messaging Platform

[Live](#) || [GitHub](#)

- Engineered a scalable real-time messaging platform using **Spring Boot, WebSockets, and STOMP**, enabling low-latency bidirectional communication with **JWT/OAuth2** secured endpoints.
- Improved frontend responsiveness using **React Query** caching, background synchronization, and optimistic updates while **containerizing the application with Docker** for consistent development and deployment.

Shorten-It – Scalable URL Shortener

[GitHub](#)

- Built a URL shortening & management service using **Spring Boot** and **PostgreSQL**, supporting unique short codes and password-protected URL access through REST APIs.
- Improved redirect performance with **Redis** caching and used **Apache Kafka** for asynchronous click analytics, keeping redirect requests non-blocking.

Persona – AI Personal Assistant

[Live](#) || [GitHub](#)

- Built a **RAG-based AI assistant** using **Next.js, Spring Boot**, and **Spring AI**, enabling context-aware responses through semantic retrieval over resume embeddings.

Education

Guru Ghasidas Vishwavidyalaya

Bilaspur, Chhattisgarh

Bachelor of Technology in Computer Science CGPA: 8.5+/10

Aug 2023 – May 2027

- Coursework: Data Structures & Algorithms, OOPs, Operating Systems, Database Management Systems, Computer Networks.

Achievements & Certifications

- Solved **600+ Data Structures & Algorithms problems** on **LeetCode**, strengthening problem-solving and algorithmic thinking.
- Contributed to **GirlScript Summer of Code (GSSoC'26)**, with **3 pull requests merged** across two open-source projects involving **React and Spring Boot**, collaborating with maintainers through code reviews and issue resolution.
- **Redis Associate Developer Certification**