Rajat Surana

Software Engineer Intern | Java · Spring Boot · REST APIs · React · SQL · Python

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Summary

Computer Engineering student (CGPA **9.66**, graduating 2028) building full-stack applications with Java/Spring Boot, React and Python. Built a JWT/OAuth2-secured URL shortener with Redis caching and a bulk PDF certificate generator. **Paytm Build with AI finalist**. Seeking a Software Engineer internship.

Education

K. J. Somaiya Institute of Technology, Mumbai — Sep 2025 – Expected Jun 2028
B.Tech, Computer Engineering — *CGPA: **9.66**/10*

Bharati Vidyapeeth's Jawaharlal Nehru Institute of Technology, Pune — Sep 2022 – May 2025
Diploma, Computer Technology — *Score: **94.69%***

Experience

Java Spring Boot Intern — Jun 2026 – Jul 2026
K. J. Somaiya Institute of Technology, Mumbai

- Delivered a URL shortener REST API in a **1-month** internship using Spring Boot, with JWT/OAuth2 authentication and Redis caching for **45 ms** redirects (see Projects).

Freelance Software Developer
Jewellery business client

- Delivered **3** internal tools: bill and order management (**200+** bills processed), OCR price-tag extraction with automatic price detection (**500+** tags scanned), and employee management.
- Designed and launched **2** live websites to help the client grow their business.

Backend Developer Intern — Jun 2024 – Jul 2024
Pragati Computer Academy, Pune

- Implemented **4** Java backend modules (JDBC, MySQL) for the academy's internal use, plus a Swing desktop GUI, within **2 months**.

Projects

URL Shortener REST API | Java, Spring Boot, MySQL, Hibernate, Redis — GitHub

- Designed REST APIs to create, retrieve, validate and redirect short links, persisting URLs and metadata in MySQL through Hibernate.
- Secured the API with Spring Security, JWT and OAuth2; achieved **45 ms** redirects with Redis caching and scheduled jobs.

Bulk Certificate Generator | Java, Spring Boot, PostgreSQL, React — GitHub

- Developing a platform that turns a certificate template and a CSV/Excel dataset into personalized PDF certificates, generating **100** certificates in under **1 minute** with field mapping and text placement.
- Implemented bulk export as ZIP archives or a single combined PDF.

Filevo – P2P File Sharing | Python, FastAPI, React, WebRTC, Docker — GitHub | Live

- Engineered browser-based device-to-device file sharing with WebRTC and a React front end, supporting transfers up to **2 GB** (**10 minutes** for a full 2 GB file) with no signup and no server-side storage.

VeriBhoomi AI – Land Record Verification | Python, OCR, Multimodal AI — GitHub | Live

- Digitized **100+** scanned land records with OCR and multimodal AI, adding math balancing, spatial validation, human review and audit trails. Selected in the internal Smart India Hackathon round among **100+** teams.

Other Projects

- **MyDump** (Flutter, Python, FastAPI, Oct 2026): desktop storage app used daily by **10+** people, storing **500+** files with client-side encryption, passkey authentication and Telegram as the storage backend.
- **Multi-Linguistic Audio Solution** (Python, NLP, MongoDB, Streamlit): led a team of **4** to build an NLP pipeline that converts multi-language PDFs to speech (a **5-page** PDF became **55 minutes** of audio). GitHub | Live

Achievements

- **Finalist, Paytm Build with AI Hackathon** (Mumbai, 31 Oct 2026): Gullak AI, a voice-based AI partner that helps merchants track sales and stock and approve supplier orders and offers.
- **Top-3 finishes at 5** hackathons and competitions, including **1st** at Ideamine and BV JNIOT, **2nd** at Symbiosis and Bharati Vidyapeeth College of Engineering, **3rd** at KJSIT.
- Solved **195** problems on LeetCode.

Skills

Languages: Java, Python, SQL, C++, JavaScript
Frontend: React, JavaScript, HTML5, CSS3
Backend: Spring Boot, Spring Security, Spring Data, Hibernate, REST APIs, JWT, OAuth2, JDBC, FastAPI
Databases & Tools: MySQL, PostgreSQL, Redis, MongoDB, SQLite, Docker, Git, GitHub, Postman, n8n
Concepts: Authentication & Authorization, API Security, Caching, DSA, OOP, DBMS, OS, Computer Networks
Certification: Cisco – Introduction to Cybersecurity