

PRASHANT BAIRAGI

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PROFESSIONAL SUMMARY

Backend-focused engineering student with hands-on experience designing, building, and deploying production-style Java applications using Spring Boot, Spring Security, JWT authentication, REST APIs, MySQL, and Docker. Experienced across the full backend lifecycle — from secure authentication and API design to containerized cloud deployment on Railway. Solid foundation in data structures, algorithms, and object-oriented programming (150+ LeetCode problems solved). Seeking a backend internship (July–August 2026) to contribute to real engineering work and grow within a product or engineering team.

TECHNICAL SKILLS

Languages: Java, SQL, Python, C++

Backend Development: Spring Boot, Spring Security, Spring Data JPA (Hibernate), REST APIs, JSON, JWT Authentication, DTO Design, Validation, Exception Handling

Databases: MySQL, PostgreSQL

Cloud & Deployment: Docker, Railway, Render, Vercel, Neon PostgreSQL

Developer Tools: Git, GitHub, Maven, Postman API Testing, Swagger / OpenAPI, IntelliJ IDEA, VS Code

Core Concepts: OOP, Data Structures, Algorithms, Problem Solving, 150+ LeetCode Problems

Additional: Embedded Systems, PCB Design, RF Communication

PROJECTS

Kharcha Pani — *Personal Finance Tracker for Modern India.* [GitHub Repository](#) [Live Demo](#) **Completed**

Production-style personal finance backend with 4 core modules (Auth, User, Expense, Analytics), built with Java, Spring Boot, Spring Security, JWT Authentication, MySQL, Docker, and REST APIs. Powers the Kharcha Pani Android app for real-world expense tracking.

- Designed secure REST APIs (12+ endpoints) using Spring Security and JWT-based authentication and authorization.
- Followed layered architecture (Controller–Service–Repository) with 8+ DTOs for request/response mapping and validation.
- Designed normalized relational database schema (2+ tables) with one-to-many entity relationships using Spring Data JPA (Hibernate).
- Implemented paginated REST APIs using Spring Data Pageable; tested with 150+ dummy expense records across multiple users.
- Containerized with Docker and deployed on Railway; backend validated end-to-end by a live Android client apk ([Kharcha Pani](#)) consuming the secured REST APIs.

Portfolio Contact API — [GitHub Repository](#) **Completed**

Production-ready backend system built using Java, Spring Boot, REST APIs, and PostgreSQL to handle portfolio contact form submissions from a live portfolio website. Backend deployed on Render, database hosted on Neon PostgreSQL, frontend integrated via Vercel.

- Developed and tested REST API endpoints (Postman) for secure contact form submission and persistent database storage.
- Deployed and maintained cloud-hosted architecture: Render (backend), Neon PostgreSQL (database), Vercel (frontend).

Smart Central Locking System — [GitHub Repository](#) **Completed**

Independently designed and deployed an embedded security system with ATmega328 microcontroller, RF communication (433 MHz), and actuator control. Installed in a personal vehicle and in continuous daily use for over a year, reliably solving a real-world access control problem.

EDUCATION

B.Tech in Electronics and Telecommunication Engineering

Jabalpur Engineering College, Jabalpur | 2023–2027 | CGPA: 6.8

CERTIFICATIONS AND ACHIEVEMENTS

- NPTEL Certifications — Database Management Systems (Elite, 2026), MEMS Fabrication Techniques (Elite, 2025), The Joy of Computing Using Python (2024)
- Data Structures & Algorithms — 150+ LeetCode problems solved
- Smart Internal Hackathon — Selected for college-level participation
- Independent Project Execution — end-to-end ownership from concept to production deployment