# CHIRANJEEV SINGH

Software Development Engineer – Java Backend

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## Summary

Java Backend Developer with 4+ years of experience building scalable REST APIs and enterprise platforms using Java, Spring Boot, PostgreSQL, and MongoDB. Skilled in API integration, backend performance optimization, Nginx configuration, containerized deployment with Docker, and AI-assisted development workflows.

## Work Experience

**Software Developer, BISAG-N, Ministry of Electronics and Information Technology of India** Jan 2026 – Present

- Developing the Data Form module of the CRPF e-File System, enabling dynamic form creation with configurable fields and validations, integrated with e-File workflows.
- Building backend functionality for e-File movement and history tracking across workflow stages, giving a complete record of every file transition.
- Implemented the Rule Authorization Module for the BSF eHRMS, managing unit mobility across four processes: Action In (ATO-IN), Action Out (ATO-OUT), Extension, and Request.
- **Tech:** Java, Spring Boot, PostgreSQL, REST APIs

**Software Development Engineer, Kaptune Media Pvt Ltd** Jul 2022 – Dec 2025

- Integrated GitHub, GitLab, and Bitbucket APIs for Antrika, automating repository operations and AI-assisted code review, improving developer efficiency by 40–50%.
- Developed 30+ REST APIs for Trackwick across workforce, attendance, payroll, and task management modules.
- Built customized client reporting features and tuned MongoDB queries and Nginx configuration, cutting report and API response times by about 30%.
- Used Sentry logs to trace and resolve production issues faster.
- **Tech:** Java, MongoDB, REST APIs, Nginx, Jenkins

## Projects

**Antrika: Developer Workflow Automation Platform** Live Application

- Automates developer workflows and repository operations across GitHub, GitLab, and Bitbucket through their REST APIs.
- Includes an AI-driven code-review workflow that provides automated feedback on pull and merge requests.
- **Tech Stack:** Java, MongoDB, REST APIs, GitHub API, GitLab API, Bitbucket API

**Trackwick: Workforce Management Platform** Live Application

- Backend APIs powering workforce, attendance, payroll, and task management modules.
- Improved scalability and reliability of business-critical operational workflows.
- **Tech Stack:** Java, MongoDB, REST APIs, Nginx

**Farmer Card App – Containerized Deployment** GitHub — Live Application

- Built a Spring Boot and Thymeleaf web app, containerized with Docker and deployed via Docker Hub to Railway.
- **Tech Stack:** Java, Spring Boot, Thymeleaf, Docker

## Learning & Development

**Currently Learning:** Kubernetes, Amazon Web Services (AWS – including Lambda), and RAG through hands-on projects.

## Education

**Guru Tegh Bahadur Institute of Technology, New Delhi**
B.Tech in Information Technology, CGPA: 9.0 2018 – 2023

## Technical Skills

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|---|---|
| **Languages** | Java, C++, C, SQL |
| **Core Java** | Object-Oriented Programming (OOP), Multithreading, Collections, Exception Handling |
| **Backend Technologies** | Spring Boot, Spring Data JPA, REST APIs, RESTful Web Services, API Integration, Swagger/OpenAPI, Thymeleaf |
| **Testing** | JUnit, Mockito, Postman |
| **Databases** | PostgreSQL, MongoDB, SQL, Database Design |
| **Cloud & DevOps** | Docker, Docker Hub, Nginx, Jenkins (CI/CD) |
| **Tools** | Git, GitHub, GitLab, Bitbucket, Maven, SonarLint, JIRA, Redmine, Robo 3T, VS Code, Sentry |
| **AI-Assisted Development** | OpenAI Codex, Claude, Gemini, Kiro, NotebookLM, Model Context Protocol (MCP) |