

# Shubhodip Pal

## Java Backend Developer

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### Professional Summary

Java Backend Developer with strong command over Java, Spring Boot, Data Structures, and Algorithms. Proficient in designing scalable RESTful systems with clean architecture and maintainable code. Adept at building, deploying, and optimizing performant services with MySQL. Experienced with Docker, CI/CD, and Cloudflare deployment pipelines. Demonstrated ownership in end-to-end product lifecycle — from development to production deployment — with strong communication and cross-functional collaboration skills.

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### Projects

#### ExamSpace – Online Assessment Platform

[GitHub](#)   [Live Site](#)

- Architected modular REST APIs using Spring Boot, handling exams, users, submissions, analytics, and admin workflows.
- Integrated JWT auth, user session tracking, and AI-based question generation (Cohere API) with OCR (Tesseract).
- Optimized schema design using MariaDB and implemented Caffeine cache for high-performance data retrieval.
- Managed end-to-end deployment via GitHub Actions, Docker, and Cloudflare Tunnel from a Raspberry Pi server.

#### NutriSift – AI-Powered Recipe Management Platform

[GitHub](#)   [Live Site](#)

- Built an AI-powered recipe creation and management system with a personalized meal planner, and grocery list generation, architected entirely using Spring Boot and MariaDB.
- Implemented secure JWT-based authentication and modular RESTful APIs, and structured the database to efficiently handle users, ingredients, recipes, and meal plans.
- Ensured consistent delivery by deploying natively on Raspberry Pi and exposing securely via Cloudflare Tunnel.

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### Technical Skills

**Languages:** Java, Python

**Backend:** Spring Boot, REST APIs, JWT, Caffeine Cache

**Databases:** MariaDB, MySQL, PostgreSQL

**Cloud:** AWS (EC2, S3, IAM basics)

**DevOps Tools:** Docker, GitHub Actions, Maven, Cloudflare Tunnel

**Concepts:** DSA, OOP, API Design, CI/CD, Agile Development

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### Education

**B.Tech in Computer Science and Technology**   University of Engineering & Management, Kolkata  
*Aug 2022 – July 2026 (Pursuing)*   **YGPA: 8.17 (Till 6th Sem)**

**Higher Secondary (WBCHSE)**   Baranagore Ramakrishna Mission, Kolkata  
*Jun 2022*   Percentage: 78.8%

**Secondary (WBBSE)**   Baranagore Ramakrishna Mission, Kolkata  
*Mar 2020*   Percentage: 86%

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### Certifications

- Data Structures & Backend with Java – Board Infinity (Coursera)
- Alpha (DSA with Java) – Apna College
- AWS Fundamentals – Amazon Web Services (Coursera)
- Delta (Full Stack Web Development) – Apna College