Shubhodip Pal
Java Backend Developer

+91-9163971594   shubhodippal01@gmail.com   Kolkata, India
shubhodip.in   linkedin.com/in/shubhodip

Professional Summary

Java Backend Developer with expertise in Java, Spring Boot, and RESTful APIs. Proven ability to design, build, and deploy scalable backend systems with a strong focus on clean, maintainable code and performance optimization. Skilled in system architecture, data structures, and algorithms. An excellent communicator and collaborative team player, thriving in fast-paced, agile development environments, consistently focused on developer productivity and delivering real-world impact through robust, high-quality solutions.

Projects

ExamSpace – Online Assessment Platform   GitHub   Live Site
- Engineered secure backend using Spring Boot, with modular REST APIs for user, exam, and analytics management.
- Implemented JWT-based authentication and AI-powered question generation (Cohere API, Tesseract OCR).
- Designed optimized schema with MariaDB and added Caffeine caching.
- CI/CD with GitHub Actions, deployed from Raspberry Pi using Docker + Cloudflare Tunnel.

NutriSift – AI-Powered Recipe Management Platform   GitHub   Live Site
- Backend with Spring Boot: APIs for user profiles, recipe generation, meal planning, and grocery list management.
- Integrated Cohere API for recipe generation.
- Deployed natively on Raspberry Pi using Cloudflare Tunnel.

Technical Skills

Languages: Java, Python
Backend: Spring Boot, REST APIs, JWT, Caffeine Cache
Databases: MariaDB, MySQL
Concepts: OOP, API Design, CI/CD, Agile
DevOps Tools: Docker, GitHub Actions, Cloudflare Tunnel

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%

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

Achievements

- **IEEE Conference Publication** – Published research titled *"Optimized Convolutional Neural Network-Based Bengali Speech Emotion Classifier"* in IEEE INDICON 2024. [DOI Link]