

AYSHI SHANNIDHYA PANDA

Java Backend Developer | Spring Boot | Reactive & Microservices Engineer

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Education

Silicon Institute of Technology, Sambalpur

2023 – Present (till 5th Semester)

Bachelor of Technology in Computer Science & Engineering

CGPA: 8.50/10

Certifications

Programming in Java – IIT Kharagpur (NPTEL) | Elite Certificate | Score: 94%

[Verify](#)

Operating Systems: Overview, Administration, and Security – IBM | Score: 95.50%

[Verify](#)

Computer Networks and Network Security – IBM | Score: 93.14%

[Verify](#)

Technical Skills

Languages: Java 21, Python, C++, SQL

Frameworks & Libraries: Spring Boot 3.x, Spring WebFlux, Spring Security, Spring Data JPA, Hibernate, REST APIs, GraphQL

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, Firebase Realtime Database

DevOps & Tools: Docker, Git, Jenkins, Maven, Gradle, JUnit 5, Mockito, Postman

Cloud & Messaging: AWS (EC2, S3), Apache Kafka, RabbitMQ, Microservices Architecture

Concepts: Clean Architecture, Domain-Driven Design, Reactive Programming, Distributed Systems, SOLID Principles

Projects

Airbnb-Like Booking Platform | Java, Spring Boot, REST APIs, Microservices

Personal Project

- Designed and implemented a scalable backend system handling real-world booking flows, inventory management, and dynamic pricing logic for a property rental platform
- Architected service layers with clean separation of concerns using DTOs, repository patterns, and layered architecture principles
- Implemented booking lifecycle management with availability handling, ensuring data consistency across concurrent operations
- Built with microservices-ready design patterns enabling horizontal scaling and independent deployment of services

Banking System | Java, Core Backend, Domain-Driven Design

Personal Project

- Built a transactional banking backend simulating real-world account operations with emphasis on data integrity and correctness
- Implemented deposit, withdrawal, and transfer flows with robust balance validation and transaction rollback mechanisms
- Enforced strong domain rules to prevent invalid state transitions and maintain financial data consistency
- Designed security-aware architecture following banking industry best practices for sensitive data handling

Patient Management System | Java, OOP Design, Domain Models

Personal Project

- Developed a healthcare backend system for managing patient records with structured entity relationships
- Implemented clean object-oriented abstractions ensuring maintainability and extensibility of the codebase
- Designed patient data lifecycle management with strong separation of concerns across service boundaries
- Built with focus on correctness, testability, and compliance with healthcare data handling requirements

Key Competencies

Backend Engineering: Proficient in building scalable, secure, and reactive backend systems using Spring Boot and WebFlux. Deep understanding of production-grade engineering practices and system design.

Architecture & Design: Experienced in clean architecture, domain-driven design, and microservices patterns. Strong focus on maintainability, testability, and separation of concerns.

Problem Solving: Strong analytical skills with ability to break down complex problems into structured solutions. Comfortable with algorithmic thinking and optimization.

Additional Information

Operating Systems: Linux (Ubuntu, Red Hat)

Languages: English (Fluent), Hindi (Fluent), Odia (Native)

Interests: Backend system design, distributed systems, performance optimization, exploring framework internals, scalable architectures