

Aryankumar Panchasara

Java Backend Developer

Gujarat, India | +91 8849451651 | Email | LinkedIn | GitHub

EDUCATION

Dhirubhai Ambani University (Formerly DA-IICT)

B.Tech in Information and Communication Technology

Gandhinagar, Gujarat

Graduated: June 2026

TECHNICAL SKILLS

Languages: Java, SQL, Python, C++

Backend: Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, RESTful APIs, Spring AI

Databases & Storage: PostgreSQL, MinIO

Testing & API Tools: JUnit 5, Mockito, Testcontainers, Postman, OpenAPI/Swagger

Developer Tools & Deployment: Git, GitHub, Docker, Docker Compose

Foundational Knowledge: Kubernetes (Pods, Deployments, StatefulSets, Services, PV/PVC), OOP, DBMS, Data Structures & Algorithms

PROJECTS

PromptCanvas – AI Application Builder | Java, Spring Boot, Spring AI, PostgreSQL, MinIO, Docker

- Built the backend for a multi-user AI application builder that generates React code from natural-language prompts using Spring Boot and Spring AI.
- Implemented Server-Sent Events (SSE) to stream model output to the client and stored generated project files in MinIO for persistent, object-based storage.
- Modeled project ownership and member access in PostgreSQL, and secured APIs with JWT authentication and role-based authorization.
- Integrated Stripe subscriptions and webhooks, including customer management, plan access, usage quotas, and subscription-status synchronization.

StayEase – Hotel Booking Platform | Java, Spring Boot, PostgreSQL, Spring Security, Stripe

- Developed REST APIs for hotel and room management, availability search, reservations, guests, payments, and administrative workflows.
- Designed date-wise room inventory and availability queries using Spring Data JPA, including multi-day inventory validation before booking.
- Prevented overbooking through transactional reservation flows and pessimistic database locking, with automatic expiry of unpaid reservations.
- Implemented JWT access and refresh tokens, role-based authorization, extensible pricing strategies, and Stripe Checkout and refund workflows.

Low-Light Satellite Image Enhancement | Python, OpenCV, NumPy

- Developed a reusable image-processing pipeline for low-light satellite imagery using illumination estimation, edge-aware filtering, adaptive gamma correction, and CLAHE.
- Compared enhancement techniques using entropy, brightness, and contrast metrics while preserving structural details in poorly illuminated regions.

CERTIFICATIONS & ACHIEVEMENTS

- **NPTEL Elite Certification in Compiler Design** – IIT Kharagpur; ranked among the top 1% of 1,391 certified candidates.