

# BALA KALI DASS M

Java | PHP|Backend Developer

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## PROFILE

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**Backend Developer** with **2+ years** building **REST APIs** in **Java** and **PHP**, with strong **SQL design** and **performance tuning**. Experienced in **schema modeling**, **complex queries**, **transactions**, and **data workflows** across **MySQL/PostgreSQL**. Focused on **secure, testable code**, **validation**, **parameterized queries**, **proper error handling**, and **role-based access**. Comfortable integrating backends with **JavaScript**, **HTML**, and **CSS** front ends and collaborating closely on **API contracts** and **UI data needs**.

## SKILLS

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### Backend Technologies

Java (Core, Collections, Concurrency), PHP (OOP), Spring Boot, Spring MVC, RESTful APIs

### Database Technologies

MySQL, SQL (joins, indexing, transactions), JDBC, Stored Procedures/Triggers

### Web Technologies

JavaScript, HTML5, CSS3, JSON, AJAX/Fetch, Form Validation

### Version Control

Git, GitHub

### Development Tools

IntelliJ IDEA, Eclipse, VS Code, Postman, MySQL Workbench/DBeaver

### Practices

API design (pagination, filtering, error handling), input validation, parameterized queries, logging

### OS

Windows, Linux (basic CLI)

## PROFESSIONAL EXPERIENCE

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**ANVAS TECH (Vishful)**, Junior Programmer 01/2024 – Present | Chennai

- Built backend for Tenant PG Management System: REST APIs in Java and PHP for real-time bookings, automated invoicing/payment tracking, notifications, and role-based access with server-side validation.
- Designed and maintained MySQL schemas; wrote complex SQL (joins, indexing, transactions, stored routines) and tuned queries; integrated via JDBC/Spring MVC; delivered occupancy/tenant analytics dashboards.
- Developed Medical Services web app (US client): appointment scheduling, dynamic rule-driven questionnaires with real-time scoring, patient history pages, and charted report analysis; integrated with JavaScript/HTML/CSS UI.

**Urbancode Edutech Pvt Solutions**,

06/2023 – 12/2023

Java Trainee / Junior Developer

- Completed hands-on training in Core Java (OOP, Collections, Exceptions, Generics, I/O, Threads) and JDBC, writing small utilities and reusable helper classes.
- Built practice CRUD modules with Java + JDBC + MySQL: schema design, SQL queries, transactions, and prepared statements for secure data access.
- Created basic REST-style endpoints and servlet-based web flows, integrating with simple HTML/CSS/JavaScript forms for input and display.

## PROJECTS

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**Tenant PG Management System**, Role: Backend Developer,

**Database Engineer Stack:** Java (Spring Boot, Spring MVC), PHP (OOP), MySQL/SQL, JDBC, JavaScript, HTML, CSS, JSON, Postman, Git/GitHub

- **Scope & Modules:** Booking/availability, tenant & room management, invoicing/billing, payments tracking, support ticketing, notifications, admin analytics.
- **Data Model (core entities):** Tenants, Rooms, RoomTypes, Bookings, Invoices, InvoiceLines, Payments, Tickets, TicketComments, Notifications, Users, Roles.
- **Transactions & Integrity:** ACID transactions for booking invoicing workflows; isolation/locking to prevent double-booking and ensure consistent balances; foreign keys, unique constraints, and check constraints.
- **Query Design & Performance:** Normalized schemas; composite/covering indexes on booking period ranges and invoice statuses; parameterized queries/JPA; EXPLAIN/ANALYZE-driven join plans.
- **Validation & Error Model:** Request validation, idempotency keys for payment updates, consistent error envelopes, pagination/filtering conventions.
- **Security:** Role-based access control, least-privilege SQL roles, audit columns (created\_by/updated\_by, timestamps).

**Medical Services Web Application (US Client)**, Role: Backend Developer,

**Database Engineer Stack:** Java (Spring Boot, Spring MVC), PHP (OOP), MySQL/SQL, JDBC, JavaScript, HTML, CSS, Charts (front-end), JSON, Git/GitHub, Postman

- **Scope & Modules:** Appointment scheduling, provider availability, dynamic diagnostic questionnaires, patient history, prescription records, report analysis, admin data tables.
- **Data Model (core entities):** Patients, Providers, Appointments, AvailabilitySlots, Questionnaires, Questions, Answers, ScoringRules, Prescriptions, LabResults, Reports, Users, Roles.
- **Questionnaire Engine:** Rules-driven assembly (branching/skip logic) with server-side scoring; deterministic evaluation and versioned rule sets for auditability.
- **Scheduling Logic:** Conflict detection on provider slots; reschedule/cancel semantics with audit trails and state transitions.
- **Reporting/Charts:** Aggregated metrics endpoints returning chart-ready series; selective projections and indexed filters for common queries.
- **Validation, Privacy & Access:** Input validation, parameterized SQL/JPA, role-based access (admin/doctor/assistant/patient), sensitive field masking in responses.
- **Admin Data Tables:** Search/sort/filter, cursor or page-number pagination, bulk operations with transactional safeguards.

## SOFT SKILL

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- Team Collaboration
- Time Management
- Communication
- Problem Solving
- Mentoring & Leadership

## EDUCATION

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**B.E - Mechanical Engineering**, KCG college of technology

2016 – 2020