

Vikas Jha

jhavikas2004@gmail.com | +91 8178985002 | github.com/vijha742 | linkedin.com/in/vijha742
Faridabad, Haryana, India

SUMMARY

Aspiring backend developer with hands-on experience in Java, Spring Boot, PostgreSQL, and full-stack web development. Passionate about building scalable APIs, clean backend architecture, and real-world problem-solving through tech.

EDUCATION

Satyug Darshan Institute of Engineering and Technology <i>B.Tech in Computer Science and Engineering; CGPA: 8.49 (4th Semester)</i>	Faridabad, India 2023 – 2027
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PROJECTS

Event Management System — Full-Stack Web Application 2025

Spring Boot 3.4, Java 21, PostgreSQL, Spring Security, OAuth2

- Developed a scalable backend for an event management platform with secure role-based access (Admin, Organizer, User) using Spring Security and OAuth2.
- Implemented RESTful APIs with HATEOAS compliance for improved discoverability and clean resource navigation.
- Designed flexible data models with PostgreSQL JSONB fields to store dynamic event metadata such as timelines, FAQs, and rules.
- Built a registration and attendance system with optimized JPA queries and connection pooling via HikariCP.
- Integrated secure CORS configuration to support a React-based frontend (externally provided). Contributed data integration modifications to frontend code.
- Ensured backend robustness with transaction management, input validation, and structured exception handling.
- Streamlined event creation, participant tracking, and delegation through a modular and future-proof backend architecture.

GitHub Analytics Platform 2025

Spring Boot, Java 21, GraphQL, Next.js 14, TypeScript, Tailwind CSS, PostgreSQL (Neon), Swagger

- Engineered a scalable Spring Boot backend with GraphQL APIs to ingest GitHub developer data, using caching and rate-limiting for performance optimization.
- Built an advanced analytics engine that scores developer contributions across 10+ metrics including code reviews, documentation, and open-source impact.
- Designed a gamified achievement system to incentivize code quality and community engagement, integrated with custom score logic and badges.
- Developed a responsive frontend UI with Next.js, TypeScript, and Tailwind CSS; included mobile-first design, dark/light themes, and accessible components.
- Integrated multi-auth support for GitHub OAuth, Gmail, and email/password flows using secure token-based authentication.
- Implemented real-time dashboards with contribution graphs, radar charts, and horizontal bar visualizations to display developer insights.
- Deployed frontend on Vercel and backend on Render with full CI/CD pipeline.

NoteConnect — Collaborative Note-Sharing App 2025

Python (Kivy/KivyMD), Supabase, PostgreSQL, Realtime APIs, Storage

- Built a full-stack mobile app enabling real-time academic content sharing across groups using Supabase Realtime APIs and PostgreSQL.
- Implemented secure user authentication with Supabase Auth, including email/password login and profile image upload.
- Engineered dynamic group and class management with invitation-based access control and role-based permissions.
- Integrated Supabase Storage for file handling with automated bucket creation, secure uploads, and public URL generation.
- Designed a real-time notification system with timestamp-based sorting, event-driven triggers, and unread/read status tracking.
- Developed a smooth and responsive cross-platform UI in Kivy/KivyMD with custom themes, FBO optimization, and adaptive layouts.
- Designed and normalized PostgreSQL schema for users, groups, notes, and notifications to support efficient data access and syncing.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript

Frameworks: Spring Boot, Maven, React, Next.js

Databases: PostgreSQL, SQLite, Supabase

Tools: Git, Docker, Postman, OAuth2, Render, Swagger

Soft Skills: Problem-solving, Collaboration, Quick Learning

CERTIFICATIONS

Java Programming MOOC – Part 1, University of Helsinki (Sep 2024)