

AKSHAT RAI

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Portfolio : <https://akshatr.ai.tech>

Professional Summary

Full-stack developer skilled in building scalable backend systems using **Spring Boot, Node.js, PostgreSQL, MongoDB**, and real-time WebSocket services. Experienced in designing REST APIs, authentication systems, and deploying containerized apps on cloud platforms. Also proficient in **Flutter and Android (Kotlin)** for delivering complete end-to-end mobile solutions with clean architecture and high performance.

Technical Skills

Languages: Java, Kotlin, Dart, JavaScript, Python, C++

Frontend and Mobile: Flutter (Android & iOS), Android (Kotlin), Jetpack Compose, React.js, HTML/CSS/JS

Realtime Systems: Socket.IO, WebSockets, Event Listeners, Live Data Streaming

Backend Development: Spring Boot, Node.js, Express.js, REST APIs, Microservices, WebSockets, JWT Auth, Spring Security, Maven, Gradle, TCPIP Modbus

Databases: MySQL, PostgreSQL, MongoDB, Firebase

Tools & Platforms: Git, AWS, Azure, Postman, Docker, Android Studio, Vercel, VPS, Linux

Projects

- **Real-Time Data Sync System (Spring Boot, WebSockets, Flutter, Android - Kotlin, PostgreSQL, Python)**

Built a real-time data synchronization system using Spring Boot and WebSockets to stream database updates instantly to Flutter and native Android (Kotlin) clients. Implemented database listeners for event-driven updates and LiveData-based UI rendering on Android to display changing values in real time. Deployed the complete stack on Azure using Docker and Maven for containerized builds.

- **Minimal Chat App (Flutter & Firebase)**

Built a cross-platform chat application with real-time messaging, image sharing, and Firebase authentication. Integrated Firebase Cloud Messaging for push notifications with deep linking and optimized build times using AGP configuration tuning.

- **CleanCity App (Flutter, Android SDK, GPS APIs)**

Developed a community-driven cleanliness reporting app featuring image uploads and GPS-based location tracking. Integrated Google Maps API and Android location services for real-time geotagging and visualization.

- **Music Player App (Flutter, Spotify API)**

Built a native Android music player that streams songs via Spotify Song IDs with synchronized lyrics. Designed custom UI components (XML layouts) for interactive playback controls.

- **Real-Time Code Editor (React, Express, Socket.IO)**

Created a collaborative web-based code editor enabling real-time editing, syntax highlighting, and multi-user sessions using Socket.IO. Implemented Express-based backend for session and socket management.

- **Quiz Management System (Spring Boot, REST APIs, PostgreSQL)**

Developed a quiz application with full CRUD functionality, question scoring logic, and secure JWT-based

authentication. Designed and documented REST APIs following best practices (HTTP codes, error handling, Swagger documentation). Integrated Spring Data JPA for optimized database interactions.

- **Authentication & Authorization Service (Spring Boot, JWT, Spring Security)**

Implemented a robust authentication system using JWT for stateless access control. Secured endpoints with role-based permissions and handled token generation, validation, and refresh cycles. Enhanced reliability through global exception handling and structured API responses.

Professional Experience

- **Mobile App Developer – Social Chitra [June 2025 – August 2025]**

Developed a SaaS platform for the sports industry. Focused on Android app development and optimization.

- **Flutter Developer Intern – The Coders Hub [Feb 2025 – May 2025]**

Implemented multilingual support & push notifications (FCM) in Android app. Debugged and optimized Android builds, improving performance.

- **Software Developer – M V Multitech Controls [Mar 2022 – Present]**

Built SCADA system software and contributed to Android-based UI modules for industrial monitoring. Worked on TCP/IP and Modbus protocols for communication.

- **Co-Founder – NexYug Tech [Feb 2025 – Present]**

Leading a startup building cutting-edge software solutions for mobile and AI applications.

Education

DPG Institute of Technology and Management (Maharishi Dayanand University)

Bachelor of Technology in Computer Science with specialization in AI & ML [2023-2027]