

# RISHAV KUMAR

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🌐 [Rishav Kumar](#)

🔗 [Rishav](#)

## EDUCATION

### School of Excellence

Senior Secondary (Class XII) – **88%**

**2021**

Delhi, India

### Delhi Technological University

B.Tech – Electrical Engineering – **CGPA: 7.82**

**Aug 2022 – Jun 2026**

Delhi, India

## COURSEWORK / SKILLS

- |                                      |                                     |               |                |
|--------------------------------------|-------------------------------------|---------------|----------------|
| • Data Structures & Algorithms       | • Object-Oriented Programming (OOP) | • Spring Boot | • REST APIs    |
| • Operating Systems                  | • Web Development                   | • Java        | • Apache Kafka |
| • Database Management Systems (DBMS) | • Android Development               | • Kotlin      | • Docker       |
|                                      |                                     | • MySQL       | • Git / GitHub |

## PROJECTS

### myTunes – Music Streaming App 🔗 | Kotlin, Jetpack Compose, MVVM, Media3, Retrofit, CoilJul 2024

- Developed a modern music streaming app with Kotlin and Jetpack Compose.
- Implemented MVVM architecture for better separation of concerns, maintainability, and scalability.
- Integrated RESTful API using Retrofit for music streaming with proper caching and error handling.
- Used Media3 and ExoPlayer for seamless audio playback with background support and buffering.
- [Download APK](#)

### PeerLink – P2P File Sharing App 🔗 | Java, Next.js, WebSockets, AWS

**Jun 2025**

- Developed a peer-to-peer file sharing app enabling direct file transfer via invite codes (port numbers).
- Implemented dynamic file servers using Java that spin up on unique ports for each transfer session.
- Created a responsive and modern drag-and-drop UI using Next.js.
- Used WebSockets for real-time connection and communication between sender and receiver during file transfers.

### Backend Microservices Architecture 🔗 | Spring Boot, Kafka, Docker, MySQL, Kong, AWS

**Jul 2025**

- Built a distributed backend system with services like Auth, User, Expense Tracker, and Data Science using Spring Boot.
- Implemented Kafka-based communication and containerized all services using Docker and Docker Compose.
- Integrated API Gateway (Kong), LangChain-based LLMs, and made services production-ready with CI/CD and AWS basics.

## INTERNSHIP

### Samsung Lab, Delhi Technological University 🔗 | Research Apprentice

**Aug 2024 – Dec 2024**

- Conducted research on NFC-based cryptographic techniques and digital signatures using HostCardEmulation.
- Designed an efficient RSA-based mutual authentication protocol for digital document signing, reducing computational cost by 96% and eliminating man-in-the-middle attacks.
- Implemented a Spring Boot server for distribution of RSA certificates used in the authentication process.
- Authored and submitted research paper “SecureXfer – NFC-Based Secure Document Signing” to the International Conference on Next Generation Information System Engineering 2025.

### Gigvala Technologies | Android Developer and Deployment

**Aug 2025 – Present**

- Developing and maintaining a cross-platform mobile application for Android using React Native.
- Managing the complete deployment lifecycle on the Google Play Store, including build generation, versioning, and release management.
- Collaborating with cross-functional teams to design, develop, and implement new application features.