

RISHAV KUMAR

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Rishav Kumar

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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

INTERNSHIP

Samsung Lab | 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.

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.