

ABHIJIT KUNDU

Junior Software Engineer

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Kolkata, West Bengal, India

SUMMARY

As a Junior Software Engineer with over 2 years of experience in full-stack Android development, I specialize in Java, Kotlin, Retrofit, SQLite, C#, ASP.NET Web API, and RFID SDK integration. Proficient in building responsive UI/UX with Android Jetpack and MVVM architecture, managing SQL Server databases, and implementing MQTT for IoT solutions. Led warehouse management projects using Agile and Scrum methodologies, improving inventory tracking by 80%. Skilled in test-driven development (TDD) and CI/CD pipelines, I deliver scalable applications with strong problem-solving and team leadership skills.

TECHNICAL SKILLS

- **Programming Languages:** Java, Kotlin, C#, SQL, Python
- **Mobile Development:** Android Studio, Retrofit, SQLite, Firebase, Jetpack Compose, MVVM Architecture, VAPT Compliance
- **Web & API Development:** ASP.NET Web API, RESTful APIs, .NET Framework
- **Databases:** SQL Server, SQLite, Firebase, Stored Procedures, Schema Design, Query Optimization
- **IoT and Embedded Systems:** MQTT, RFID (UHF Read/Write), Barcode/QR Code Scanning, Embedded Linux
- **AI and Machine Learning:** YOLO v8, Tesseract, OCR, Custom Dataset Training
- **Tools & Platforms:** Visual Studio, Git, Postman, SQL Server Management Studio, SEUIC/Chainway/Zebra SDKs, CI/CD Pipelines, Agile Methodologies, Test-Driven Development (TDD)

EXPERIENCE

Perceptron Software Labs Pvt Ltd

Panjim, Goa

Junior Software Engineer

May 2023 – Present

RFID-based custom software development company

- Developed 8+ full-stack Android applications using **Java**, **Kotlin**, and **Android Studio**, integrating **MVVM** architecture and UI designs, improving user engagement by 70%.
- Implemented **Android Networking**, **Retrofit** for **RESTful API** communication with **ASP.NET** Web APIs, reducing data retrieval time by 25% for real-time IoT applications.
- Designed **SQL** Server and **SQLite** database schemas with stored procedures, optimizing data storage and retrieval to achieve 20% faster query response times.
- Built **RFID**-enabled Android apps using **SEUIC**, **Chainway**, and **Zebra SDKs**, enabling **UHF tag** read/write and **Barcode/QR code** scanning for 10,000+ inventory items, achieving 99% scanning accuracy.
- Integrated **MQTT** protocol for real-time communication between Android apps and 50+ RFID hardware readers, ensuring 99% uptime.
- Led a warehouse management system project using **Java**, and **RFID SDKs**, integrating **ASP.NET Web APIs** via **Agile**, improving inventory accuracy by 80% and reducing processing time by 30%.
- Demonstrated problem-solving skills by optimizing API synchronization, resolving 95% of data latency issues for 100+ API calls, collaborating with cross-functional teams.

Focus Edumatics Pvt Ltd

Coimbatore, Tamil Nadu

Executive Tutor

Jan 2022 – Apr 2023

Online tutoring platform for U.S. students

- Delivered one-on-one online math tutoring to 50+ U.S. students (Grades 1-12), aligning with Common Core curriculum, improving student test scores by 85%.
- Managed 10+ daily tutoring sessions, developing strong communication and time-management skill.

EDUCATION

Narula Institute of Technology

Kolkata, West Bengal

Bachelor of Technology in Electrical Engineering

June 2019

CGPA: 8.78/10.0 (Graduated with Honors)

PROJECTS

Warehouse Management System

Hosur, Tamil Nadu

Client: GRB Dairy Foods Pvt Ltd

Technologies: Java, Kotlin, C#, SQL, Android Studio, ASP.NET Web API, RFID SDK, MQTT

- Developed Android app for RFID PDA and UHF reader devices, integrating RFID and barcode scanning for real-time inventory tracking from unloading to loading.
- Implemented C# ASP.NET Web APIs for IoT device communication with SQL Server, optimizing data storage and retrieval, reducing data retrieval time by 30%.
- Optimized SQL database schemas with stored procedures, reducing query response time by 25%.

Smart Material Tracking System

Pilerne, Goa

Client: Kinenco Kaman Composites – India Private Limited (KKCI)

Technologies: Java, Android Studio, RFID SDK

- Built Android app for RFID-based composite material tracking using UHF passive tags, improving real-time movement monitoring accuracy by 95%.
- Automated outlife calculation, reducing miscalculations by 95%.

Ladle Tracking System

Bokaro, Jharkhand

Client: Vedanta ESL Steel Limited

Technologies: Kotlin, C#, SQL, Android Studio, ASP.NET Web API, RFID SDK

- Developed Android app for real-time ladle movement tracking across furnace casting, production, and maintenance stages.
- Implemented C# ASP.NET Web APIs for IoT device data exchange with SQL Server, ensuring data accuracy by 99%.

Attendance Tracking System

Technologies: Java, C#, SQL, Android Studio, ASP.NET Web API

- Built Android app for real-time employee attendance tracking with image capture and geolocation, improving user engagement and accuracy by 95%.
- Integrated C# ASP.NET Web APIs with SQL Server for reliable data management.

LANGUAGES

- **Bengali** – Native
- **English** - Professional
- **Hindi** – Conversational

ADDITIONAL INFORMATION

Soft Skills: Team Leadership, Process Understanding, Teamwork, Problem-Solving, Debugging and Troubleshooting, Performance Optimization