Mohamed Noohu

Android Developer

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SUMMARY

Android Developer with 4+ years of experience in creating user-friendly mobile applications and integrating them with hardware. Passionate about enhancing user experiences through innovative technology, I specialize in real-time data communication and seamless application development. I thrive in the complete project life cycle, from ideation to deployment, and dedicated to delivering impactful mobile solutions.

TECHNICAL SKILLS

Languages: Java, Kotlin, JavaScript, HTML/CSS

Frameworks/Libraries: Android SDK, Jetpack Components,Dagger Hilt, React Native, Firebase, Room Database, Shared Preferences

Architecture & Patterns: MVC, MVVM, OOP, Agile, CI/CD

Tools: Android Studio,VS Code, GitHub, Gradle.

Protocols & Communication: TCP, UDP, BLE, CAN Protocol.

Other Skills: REST API Integration, UI/UX Design, Material Design, SQLite.

EXPERIENCE

Zumi solutions(p) Limited Aug 2021 –Present

Bangalore

- Led the development of multiple Android applications using Java and Kotlin, covering the complete project lifecycle, including analysis, design, development, and testing.
- Integrated hardware components with mobile applications, ensuring seamless communication using Bluetooth, TCP, and UDP technologies.
- Implemented TCP (Transmission Control Protocol) and UDP (User Datagram Protocol) for efficient and reliable data transfer.
- Engineered CAN data integration through the OBD port and configured servers for redundancy in cluster applications, ensuring high availability and enhanced automotive functionality.
- Developed and integrated REST APIs to streamline web service interactions and enhance application flexibility.
- Built dual camera applications using Kotlin, focusing on seamless integration and an enhanced user experience.
- Worked with React Native for cross-platform mobile app development, optimizing performance and reducing development efforts.

SELECTED PROJECTS

Nabhamitra (Offline Map) | Java, Android Studio

- **UI & UX Development**: Designed responsive UI and wireframes based on customer requirements.
- **IoT Communication:** Implemented TCP/IP communication between the Android app and IoT devices.
- **Fishing & Navigation Assistance:** Integrated GPS data from IoT devices to help fishermen identify fishing locations and nearby harbors.
- **Offline Map Integration:** Utilized the Map Forge library for offline map routing to assist navigation without internet dependency.
- **Tech Stack:** Used MVC architecture, SQLite for data storage, Material Design for enhanced UX, and Gradle for optimized performance

Auto-Phoropter (Eye Power Checking) | Java, Android Studio

- **Tablet-Optimized UI:** Designed and developed an intuitive knob designer and number picker interface exclusively for tablet devices, ensuring a seamless user experience.
- **Eye Test Parameters:** Incorporated essential vision tests, including Spherical (SPH), Cylindrical (CYL), Axis, Prism, and Pupillary Distance (PD) for accurate eye measurements.
- **Network Communication:** Applied UDP broadcasting for quick device detection and TCP communication for stable real-time data exchange with the Phoropter board.
- **Bluetooth Printer Integration:** Enabled Bluetooth connectivity to print patient eye test reports via a thermal printer.
- **Real-Time Data Processing:** Ensured dynamic display and instant updates of eye test readings for a smooth optometry workflow.
- **Optimized Performance:** Fine-tuned the app for tablet resolutions, reduced latency in data communication, and ensured efficient resource utilization for real-time performance.

Cluster-Application | Java, Android Studio

- **Speedometer UI Development:** Developed and implemented a round display UI for real-time speed monitoring.
- **CAN Protocol Integration:** Integrated communication with vehicle's onboard system to retrieve data (speed, fuel, ABS, headlight).
- **Dynamic UI Updates:** Configured real-time UI updates based on CAN data for speed, fuel gauge, and indicators.
- **Responsive UI Design:** Optimized UI for smooth user experience and performance in Android Studio.
- **Onboard System Communication:** Utilized CAN protocol for accurate, timely vehicle data display.

Z-Pal (Weather Updating) | Java, Android Studio

- **BLE Communication:** Incorporated Bluetooth Low Energy (BLE) to enable communication with the board for real-time weather updates.
- **Dynamic UI Development:** Developed and implemented a dynamic UI to display weather data, including temperature, humidity, gas levels, energy, and air quality.
- **Bluetooth Control:** Enabled users to toggle Bluetooth on and off directly from the Z-Pal app for convenience.
- **Real-time Data Updates:** Ensured continuous real-time updates of environmental data through seamless communication between the app and the board.
- **Optimized App Performance:** Focused on smooth, responsive performance while displaying live weather data through BLE communication.

EDUCATION

Al-Ameen Engineering College Sep 2022 – May 2025
B.E Computer Science ***Erode***

Aalim Muhammad Salegh Polytechnic College June 2017 – April 2020
Diploma in Computer Science ***Chennai***

LANGUAGE KNOWN

- Tamil
- English