Drishtant Lekharu

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EDUCATION

KIIT University — Bhubaneswar, Odisha
B.Tech in Electronics and Computer Science — *2022 - 2026*

EXPERIENCE

Samsung PRISM (Samsung R&D Institute India, Bangalore) — March 2024 – Nov 2024
Software Development Intern (Research Intern) — *Remote*

- Developed and deployed a secure user authentication **API** using **Python**, **Flask**, and **SQLite** on **AWS EC2**, reducing potential vulnerabilities by 30% during internal testing.
- Developed an Android application for **multicast audio streaming over WiFi** using **Kotlin** and the Android SDK
- Engineered a **client-server architecture** with **TCP/IP** and Network Service Discovery (NSD), reducing setup time by 15% in a test environment.
- Implemented audio streaming with MulticastSocket and DatagramPacket
- Operated real-time audio streaming to multicast groups, achieving an average **data rate** of **120-145 Kbps** and less than 10% packet loss during testing.

PROJECTS

Questions Practice App 🔗 | *Kotlin, Firebase, Android SDK*

- Developed an Android application in Kotlin using Android SDK and Android Studio to provide users with a platform for practicing questions of subjects like Aptitude, Reasoning etc.
- The app fetches data from a Firebase real-time database, presents multiple-choice questions, and validates user answers in real-time, providing instant feedback.
- Implemented secure user authentication using Firebase, enabling sign-up and sign-in functionality.
- Future enhancement: Integrating an AI-powered Large Language Model (LLM) to dynamically generate aptitude questions, enhancing user engagement and expanding the app's content.

Stock Lookup App 🔗 | *Kotlin, Android SDK, Retrofit, MVVM*

- Developed a mobile application that allows users to search for stock information using stock symbols, displaying real-time data such as current price, percentage change, and company name.
- Initiated API integration with Finnhub to fetch and display real-time stock information, including current prices and changes.
- Utilized ViewModel architecture components to manage UI-related data lifecycle-consciously, ensuring efficient data handling and error management.

TECHNICAL SKILLS

Languages: C++, C, Kotlin, Python, Java
Frameworks: Android SDK, Android Jetpack, Kotlin Coroutines, Retrofit, Dagger/Hilt, MVVM Architecture
Databases: MySQL, Firebase
Developer Tools: Git, Github, VS Code
Libraries: Pandas, NumPy, Matplotlib

COURSEWORK SUBJECTS

- Object Oriented Programming
- Computer Networks
- Operating Systems
- Database Management Systems
- Data Structures & Algorithms