AVIJIT PRATAP SINGH

Software Engineer

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EDUCATION

B.Tech Computer Science

Vellore Institute of Technology, AP

📅 09/0 – Present

SKILLS

Java	**OOPS**	**Application programming**
aws cloud	**aws archietecture**	**Data**
Structures and Algorithms		**SQL**
Competitive Programming CodeChef		

TRAINING / COURSES

Certified Android Application Developer-Udemy

Certified AWS Cloud Foundations

Certified AWS Cloud Archietecture

EXPERIENCE

Android Application Developer

● **Bharat Intern**

• Developed an interactive quiz application for Android using Kotlin and XML, providing a user-friendly interface and seamless user experience.

• Optimized an algorithm for dynamic content loading, improving data retrieval efficiency by 37%, and ensured minimal load time in the app.

• Integrated Firebase for backend services, enabling real-time database management and user authentication.

• Implemented JSON parsing for dynamic content loading, allowing the app to fetch and display questions and answers efficiently.

• Resolved complex code issues and debugged errors, leading to a 5% reduction in app crashes and higher stability across various Android versions.

Android Application Developer

● **Oasis Infobyte**

● **Real-time Attendance Tracking:** Teachers can mark attendance and students can view their records instantly.

● **Course Management:** Both teachers and students can access course information.

● **Firebase Integration and Security:** The app uses Firebase for real-time updates and secure authentication.

● Implemented adaptive difficulty logic, effectively increasing user engagement by providing personalized quiz experiences.

● Participated in algorithm design for quiz timer management, ensuring accurate time tracking and smooth user experience.

PROJECTS

• Your UNi Attendance:

● **Real-time Attendance Tracking:** Teachers can easily mark student attendance using the app, with options to record absences, late arrivals, or early departures. Students can view their attendance records in real-time.

● **Course Management:** Students can view their registered courses and identify courses that they need to register for. Teachers can view their assigned courses and manage their teaching schedule.

● **Firebase Integration:** The app leverages Firebase Realtime Database to ensure that attendance data is updated in real-time, allowing both teachers and students to access the most current information.

● **User Authentication:** The app uses Firebase Authentication to allow teachers and students to securely access the app using their credentials.

● **Intuitive User Interface:** The app features a user-friendly interface designed to simplify the attendance tracking process for both teachers and students.

• Quizzzy:

● **Dynamic Quiz Generation:** The app leverages Firebase Realtime Database to store a vast collection of questions and answers. It dynamically generates quizzes based on the user's selected topic and difficulty level.

● **Interactive User Interface:** I designed an intuitive and user-friendly interface using XML, ensuring a seamless experience for users. The app incorporates features like progress bars, timers, and score tracking to enhance engagement.

● **Adaptive Difficulty:** The app adapts to the user's performance, gradually increasing or decreasing the difficulty of questions to provide a personalized learning experience.

● **Detailed Feedback:** After each quiz, users receive detailed feedback, including correct answers and explanations. This helps them understand their strengths and weaknesses.

● **Leaderboards:** The app maintains leaderboards to encourage competition and motivate users to improve their scores.