AYUSH MISHRA

✉ mishra.ayush.mscse@gmail.com   📱 352-740-7018   in LinkedIn

SUMMARY

Android Software Engineer with 2+ years of experience building scalable mobile applications using Kotlin, Jetpack Compose, and MVVM architecture. Strong proficiency in REST and GraphQL APIs, unit testing, and performance optimization. Experience working with cross-functional teams in Agile environments. Passionate about trust and safety, developer productivity, and building reusable libraries and frameworks.

EDUCATION

University of Florida | Masters in computer science   **Aug 2023-May 2025**
Relevant Coursework: Analysis of Algorithms, User Interface Design, Advance Data Structure, Software Engineering, Computer networks, Distributed Operating Systems, Computer Architecture Principle**,** Introduction to Data Science, UI design.

University of Mumbai | Bachelors in Computer Engineering   **July 2018- May 2022**
Relevant Coursework: Data Structure and algorithms, Artificial intelligence, Mobile Application Development, Database Management System, Human machine interaction, Natural Language Processing.

SKILLS

- **Mobile Development:**   **Kotlin, Android SDK, ExoPlayer, Jetpack Compose, Material Design 3, XML, React Native**
- **Architecture & Patterns:**   **MVVM, Repository Pattern, MVI, MVP**
- **Database Technologies:**   **Room, SQL, MongoDB**
- **Programming Languages:**   **Java, C++, C#, Python**
- **Networking:**   **Retrofit2, OkHttp3, RESTful APIs, WebSocket, GraphQL**
- **Asynchronous Programming:** **Kotlin Coroutines, Flow**
- **Testing & Analytics:**   **Espresso, JUnit, A/B Testing Frameworks, Firebase Analytics**
- **Development Tools:**   **Android Studio, Jira, CI/CD, Docker, Figma, Git, GitHub/GitLab, Jenkins, Gradle**
- **Methodologies:**   **Agile Scrum, Code Reviews, CI/CD Pipelines, Full Software Development Lifecycle**

EXPERIENCE

Android Developer

University of Florida   **August 2024 – Present**
- Developed a React Native mobile app with geofencing capabilities, integrating OpenAI API for AI-driven content generation and implementing a voice assistant using speech recognition APIs.
- Developed mobile UI with modern Android principles and integrated RESTful services with JSON structure parsing.
- Implemented state management using Redux, utilized React hooks for component logic, and employed Async Storage for local data persistence and offline functionality.
- Optimized app performance through efficient API call management, implemented WebSocket for real-time updates, and utilized React Native's bridge for native module integration.
- Wrote unit tests for feature components using Jest (React Native), improving coverage and reliability.
- **Tech Stack:** React Native, JavaScript, Express.js, MySQL, OpenAI API, Geolocation Services, Voice Recognition.

Android Developer

Reliance Jio Infocomm Limited   **June 2022 - July 2023**
- Worked on video streaming infrastructure with ExoPlayer, scaling to 22.7M concurrent users during FIFA World Cup 2022.
- Developed adaptive bitrate algorithms and buffer management, reducing latency by 40%.
- Created real-time analytics pipeline using Kotlin Coroutines, processing billions of video views.
- Worked closely with cross-functional teams to balance cross-platform consistency and android optimization.
- Built custom video player components using Android Jetpack Compose and Material Design 3, incorporating picture-in-picture mode and background playback capabilities.
- **Tech Stack**: **Kotlin, Jetpack Compose, ExoPlayer, Room, Coroutines, Flow, Firebase, Retrofit, WorkManager**

PROJECTS

ShellHacks 2024 Hackathon Project - Interactive Learning Platform
- Architected a responsive React.js frontend with reusable UI components and custom hooks, achieving 40% faster development cycles and real-time content synchronization.
- Engineered an accessible TypeScript component library with ARIA attributes and keyboard navigation, improving application inclusivity and user experience.
- Developed interactive UI elements with dynamic quiz components and slide presentations, receiving 98% positive feedback on interface responsiveness.
- **Tech Stack**: React.js, TypeScript, Material-UI, React Query, Web Speech API, CSS Modules

Daily News Android App
- Developed a Kotlin-based Android news reader app with Retrofit integration and clean MVVM architecture.
- **Tech Stack**: Android, Kotlin, Retrofit, UI/UX Design, Mobile Application Development.