

AYUSH MISHRA

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SUMMARY

Software Engineer with 2+ years of experience delivering scalable, customer-obsessed solutions for millions of users. Proven track record of taking ownership of complex systems, cross-functional collaboration, and system architecture with strong CS fundamentals in building fault-tolerant, distributed applications.

EDUCATION

University of Florida | Masters in computer science

Aug 2023-May 2025

University of Mumbai | Bachelors in Computer Engineering

July 2018- May 2022

SKILLS

- Programming Languages:** Kotlin, Java, Python, TypeScript, JavaScript, C++, C#
- Mobile Development:** Android SDK, Jetpack Compose, ExoPlayer, XML, React Native, Material Design 3, Firebase, Retrofit
- Backend & Web Development:** Node.js, Express.js, RESTful APIs, WebSocket, GraphQL
- Databases:** MySQL, Room (SQLite), MongoDB, Firebase Realtime DB
- Cloud & DevOps:** GitHub Actions, Docker, Firebase Hosting, PM2, AWS services: EC2, Lambda, S3, DynamoDB
- Architecture & System Design:** MVVM, MVI, Repository Pattern, Modular Architecture, Distributed Systems, Dependency Injection (Hilt)
- Asynchronous & Reactive Programming:** Kotlin Coroutines, Flow, Async/Await (JS), Lifecycle-aware components
- Software Engineering Practices:** Agile Scrum, CI/CD pipelines, PR code reviews, cross-functional collaboration, accessibility compliance
- CS Fundamentals:** Data Structures & Algorithms, Optimization Algorithms, Recursion, Sorting, Graphs, Time/Space Complexity, Multithreading

EXPERIENCE

Software Engineer (FullStack/Mobile)

August 2024 – Present

University of Florida

- Architected and designed 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.
- Cross-functionally collaborated with product teams to integrate OpenAI API for AI-driven tip generation and built a voice assistant, reducing task completion time by 35% via speech recognition.
- Optimized system performance through enhanced API call handling and integrated WebSocket for real-time updates, reducing backend load by 30%.
- Led technical architecture decisions for native module integration via React Native bridge, increasing modularity and native performance by 15%.
- Designed and implemented comprehensive unit testing strategy for feature components using Jest (React Native), improving coverage and reliability.
- Took end-to-end ownership of entire feature pipelines, from system design through deployment, aligned with accessibility and scalability goals.
- Tech Stack:** React Native, JavaScript, Express.js, MySQL, OpenAI API, Geolocation Services, Voice Recognition.

Mobile Application Developer

June 2022 - July 2023

Reliance Jio Infocomm Limited

- Designed and implemented video streaming infrastructure with ExoPlayer, scaling to 22.7M concurrent users during FIFA World Cup 2022.
- Developed optimization algorithms for adaptive bitrate streaming and buffer management, reducing latency by 40%.
- Architected real-time analytics pipeline using Kotlin Coroutines, processing billions of video views with fault-tolerant design.
- Collaborated cross-functionally with product, infrastructure, and QA teams to ensure 90%+ feature parity across platforms while optimizing Android-specific experiences.
- Built scalable, modular 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

Social Media Analytics Platform

- Designed and implemented distributed backend architecture with REST API design patterns and complex database management
- Developed automated test suites and implemented comprehensive testing strategies for microservices reliability
- Tech Stack:** Java, Spring Boot, Microservices, REST APIs, JPA/Hibernate, Distributed Architecture

ShellHacks 2024 Hackathon Project | Sept 2024

- Developed full-stack application with backend API design and real-time data processing in fast-paced environment.
- Tech Stack:** React.js, Node.js, Express.js, MongoDB

Daily News Android App

- Architected native Android application using Java and Kotlin with clean MVVM architecture.
- Tech Stack:** Java, Kotlin, Android SDK, MVVM Architecture, Unit Testing