

# AYUSH MISHRA

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## SUMMARY

Android Software Engineer with 3+ years of hands-on Android development experience specializing in Kotlin and Android SDK. Proven expertise in building and maintaining production-ready Android applications with clean architecture principles. Experience with hardware-software integration, CI/CD pipelines, and Agile/Scrum development processes. Proficient in Jetpack Compose, Coroutines, State Flows, and modern Android frameworks.

## EDUCATION

University of Florida | Masters in computer science

Aug 2023-May 2025

University of Mumbai | Bachelors in Computer Engineering

July 2018- May 2022

## SKILLS

- **Mobile Development:** Android SDK, Kotlin, Java, Android Studio, Gradle, Jetpack Compose, Jetpack components, ExoPlayer, XML, Material Design 3, Coroutines, State Flows, Clean Architecture, Repository Pattern, Room (SQLite), Dependency Injection (Hilt)
- **Testing & Quality Assurance:** Unit testing, UI testing, Test-driven development, Espresso, Robolectric, automation testing frameworks, test strategy creation, code reviews, debugging and troubleshooting
- **Development Practices:** Agile/Scrum development, CI/CD pipelines, GitHub Actions, Git version control, sprint planning, daily stand-ups, retrospectives, code reviews, architectural decision making, app optimization
- **Backend & Solution Architecture:** Node.js, Express.js, RESTful APIs, WebSocket, GraphQL, real-time analytics, scalable solutions
- **Programming Languages:** Kotlin, Java, Python, TypeScript, JavaScript, C++, C#
- **CI/CD & DevOps:** GitHub Actions, Docker, Firebase Hosting, PM2, CI/CD, Automation Testing, Test Strategy Creation
- **Cloud Platforms & Scalable Solutions:** AWS Services, Azure Familiarity, Firebase, Distributed Systems
- **Database & Data Management:** MySQL, Room (SQLite), MongoDB, Firebase Realtime DB, Data Management Solutions
- **Soft Skills:** Influence, Analytical Thinking, Collaboration, Risk Management, Business Acumen, Executive Communication

## EXPERIENCE

### Mobile Software Engineer

University of Florida

August 2024 – Present

- Led end-to-end solution design and delivery for production-ready Android applications using Kotlin and Android SDK
- Implemented CI/CD pipelines using GitHub Actions, reducing deployment time and improving code quality
- Collaborated with cross-functional teams in Agile/Scrum environment, participating in sprint planning, daily stand-ups, and retrospectives
- Built scalable backend solutions with WebSocket integration, reducing server load by 30%
- Created comprehensive test strategy and automation framework, improving test coverage by 25%
- Participated in code reviews and architectural decision making for mobile applications
- Applied Clean Architecture principles and MVVM patterns for maintainable code structure
- Technology Stack: Android SDK, Kotlin, React Native, JavaScript, Express.js, MySQL, Git, CI/CD

### Android Developer

Reliance Jio Infocomm Limited

June 2022 - July 2023

- Delivered complex Android features for video streaming infrastructure using ExoPlayer, successfully scaling to 22.7M concurrent users during FIFA World Cup 2022
- Led technical strategy development for adaptive bitrate algorithms reducing streaming latency by 40%
- Architected and implemented real-time analytics pipeline using Kotlin Coroutines and State Flows
- Designed and developed custom video player components using Android Jetpack Compose and Material Design 3
- Implemented hardware-software integration for optimized remote management and fleet scalability
- Applied Clean Architecture concepts and MVVM architectural patterns for maintainable code
- Participated in Agile development processes with code reviews and test-driven development
- Built production-ready Android applications with unit testing and UI testing frameworks
- Technology Stack: Kotlin, Android SDK, Jetpack Compose, ExoPlayer, Room, Coroutines, State Flows, Firebase, Gradle

## PROJECTS

### Social Media Analytics Platform [\[Github\]](#)

- Designed distributed backend architecture with REST API design patterns optimized for high-throughput data processing
- Technologies: Java, Spring Boot, Microservices, REST APIs, JPA/Hibernate, Distributed Architecture

### ShellHacks 2024 Hackathon Project [\[Github\]](#) | Sept 2024

- Architected responsive React.js frontend with reusable component library and TypeScript implementation
- Integrated AI APIs (ChatGPT-4, LangChain) to deliver personalized learning content with real-time generation

### Daily News Android App [\[Github\]](#)

- Developed native Android application using Kotlin with Clean Architecture and MVVM patterns
- Implemented Jetpack components including Room database and State Flows for reactive programming
- Applied unit testing and UI testing best practices with test-driven development
- Tech Stack: Android SDK, Kotlin, Clean Architecture, MVVM, Room, State Flows