

AYUSH MISHRA

✉ mishra.ayush.mscse@gmail.com ☎ 352-740-7018  [LinkedIn](#)

SUMMARY

Software Engineer with 2+ years of experience delivering scalable, customer-obsessed mobile and backend solutions. Proven track record of taking ownership, simplifying complex systems, and shipping high-impact features used by millions. Proficient in Kotlin, Jetpack Compose, and full-stack JavaScript, with strong CS fundamentals and hands-on experience building fault-tolerant, high-availability applications.

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

- **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:** AWS (EC2, Lambda, S3, DynamoDB, API Gateway), Docker, GitHub Actions, Firebase Hosting, PM2
- **Architecture & System Design:** MVVM, MVI, Repository Pattern, Modular Architecture, 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, accessibility compliance
- **CS Fundamentals:** Data Structures & Algorithms, Recursion, Sorting, Graphs, Time/Space Complexity, Multithreading

EXPERIENCE

Software 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.
- Integrated async storage to improve offline performance and customer retention
- 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.
- Took ownership of entire feature pipelines, from design through deployment, aligned with accessibility and scalability goals.
- **Tech Stack:** React Native, JavaScript, Express.js, MySQL, OpenAI API, Geolocation Services, Voice Recognition.

Software 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

QuickQuizz

- Architected a responsive React.js frontend with reusable UI components and custom hooks, achieving 40% faster development cycles and real-time content synchronization.
- Integrated accessibility features like **text-to-speech**, **speech-to-text**, and utilized **React JS**, **Python (Flask)**, **LangChain**, **ChatGPT 4**, and Chroma DB for a seamless, engaging learning 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.