

# Ahmad Ali

Flutter Developer

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Flutter Developer with hands-on experience in building secure and scalable mobile applications. Proficient in Flutter, Dart, and SQLCipher, with a solid understanding of modular app architecture, performance optimization, and user-centric UI/UX design. Passionate about writing clean, maintainable code and continuously learning modern mobile development practices.

## Education

### NUML Islamabad

Bachelors in Information Technology (3.1 CGPA)

February 2022 — January 2026

### IMCB Islamabad

FSC in Computer Science (738)

August 2019 — July 2021

### Air Foundation Islamabad

Matriculation in Computer Science (783)

March 2017 — June 2019

## Experience

### Flutter Developer

GrithX Solutions (Pvt) Ltd.

September 2025 — Present

Currently working as a Flutter Developer, contributing to production-level mobile application development.

- Developing, implementing, and maintaining Flutter-based mobile application features using Dart
- Designing and building responsive, reusable, and scalable UI components following Material Design principles
- Applying clean code practices, modular architecture, and separation of concerns to improve maintainability
- Collaborating with cross-functional teams to define, design, and ship new features
- Participating in code reviews to ensure code quality and adherence to best practices
- Testing and debugging mobile applications to ensure smooth performance and user experience
- Optimizing application performance, UI responsiveness, and user experience
- Debugging, testing, and resolving application issues to ensure stability and reliability
- Following version control best practices using Git
- Staying updated with the latest mobile development trends and technologies

### Flutter Developer (Final Year Project)

GrithX Solutions (Pvt) Ltd.

December 2024 — December 2025

Worked as a Flutter Developer on a production-grade mobile application as part of a Final Year Project, focusing on secure communication, clean architecture, performance optimization, and automated deployment workflows.

- Designed and developed a production-level mobile application using Flutter and Dart with a modular and scalable architecture
- Implemented end-to-end encryption mechanisms based on industry-standard cryptographic principles
- Worked with secure key exchange and message encryption techniques to ensure data confidentiality
- Integrated encrypted local storage using SQLCipher to protect sensitive application data at rest
- Implemented biometric authentication for secure user access and identity protection
- Added screen protection features to prevent screenshots and screen recording
- Developed real-time messaging workflows with reliable message delivery handling
- Worked with background services and connection management for persistent app functionality
- Built responsive and reusable UI components following Material Design 3 guidelines
- Translated Figma designs into pixel-perfect Flutter UI
- Implemented a CI/CD pipeline to automate build, testing, and deployment processes
- Used Git-based version control and CI workflows to ensure code quality and deployment consistency
- Focused on performance optimization, clean code practices, and long-term maintainability
- Created detailed technical documentation covering architecture, security design, and application workflows

### UI/UX Designer

Upwork

July 2023 — December 2023

Worked as a UI/UX Designer on freelance projects, designing mobile application interfaces with a strong focus on usability, visual consistency, and user-centered design principles.

- Designed intuitive and user-friendly mobile application interfaces using Figma
- Created wireframes, user flows, interactive prototypes, and high-fidelity mockups
- Applied mobile-first and responsive design principles to enhance user experience

- Collaborated closely with developers to ensure accurate and feasible design implementation
- Conducted design iterations based on feedback to improve usability and visual clarity
- Maintained design consistency through reusable components and design systems
- Focused on accessibility, layout hierarchy, and user experience optimization
- Delivered client-ready UI assets aligned with project requirements and timelines

**DevOps & Server Administrator**

*June 2020 — March 2023*

*GrithX Solutions (Pvt) Ltd.*

Worked as a DevOps and Server Administrator, managing web hosting infrastructure, server operations, and client-facing technical support with a focus on reliability, performance, and system stability.

- Managed and administered web hosting servers using cPanel and WHM
- Handled client billing, service provisioning, and account management using WHMCS
- Created, configured, and maintained hosting accounts, domains, and DNS records
- Monitored server uptime, performance, and resource utilization
- Diagnosed and resolved server, network, and hosting-related technical issues
- Ensured server stability, security, and backup management
- Provided customer-focused technical support and issue resolution
- Collaborated with internal teams to maintain service availability and quality

**Projects**

**Connectify**

*December 2024 — Present*

A production-grade, privacy-focused peer-to-peer messaging application designed for anonymous and secure communication without requiring phone numbers or centralized servers.

- Integrated a real Tor-based embedded binary to enable anonymous network communication using genuine .onion addresses
- Implemented a peer-to-peer (P2P) communication model eliminating the need for central servers
- Applied Signal Protocol concepts, including X3DH key exchange and Double Ratchet algorithm, to achieve end-to-end encrypted messaging
- Ensured forward secrecy and message confidentiality through per-message encryption
- Secured local message storage using SQLCipher for encrypted database persistence
- Implemented biometric authentication and secure key storage for protected application access
- Added screen protection mechanisms to prevent screenshots and screen recording
- Designed and developed a responsive, cross-platform mobile UI using Flutter and Dart
- Followed clean code practices and modular architecture for maintainability and scalability
- Implemented CI/CD pipelines to automate build and deployment workflows
- Created comprehensive technical documentation covering architecture, security, and application workflows

**CodeX & KryptoniteOS Mobile App UI/UX**

*March 2024 — January 2025*

Designed complete UI/UX for chat and calling applications for CodeX and KryptoniteOS, focusing on usability, visual consistency, and modern mobile design standards.

- Created end-to-end UI/UX designs for chat and calling applications using Figma
- Developed wireframes, interactive prototypes, and high-fidelity screens for messaging and call workflows
- Designed intuitive user flows for sending/receiving messages, initiating calls, and managing contacts
- Applied mobile-first design principles, visual hierarchy, and accessibility standards
- Maintained design consistency with reusable components, typography, and color systems
- Collaborated with developers to ensure accurate handoff and implementation of designs in mobile apps
- Optimized layouts and interactions to enhance user experience and usability across devices

**Publications**

**Awards**

**Top 5 FYP – Nexus 2025, NUML**

*December 2025*

*NUML University*

Participated with the Connectify project in the university-wide Nexus 2025 competition, achieving a Top 5 position and receiving high appreciation from faculty for innovation, security implementation, and technical excellence.

**Languages**

**English:** Professional Working Proficiency

**Urdu:** Native or Bilingual Proficiency

**Skills**

**Flutter:** Flutter Widgets, Custom UI Components, State Management, Clean Architecture, Modular App Structure, Responsive UI, Material Design 3

**Mobile Application Development:** Android Application Development, Cross-Platform Development, Mobile UI/UX Implementation, Performance Optimization, App Lifecycle Management

**Programming Languages:** Dart, Kotlin, Java, Object-Oriented Programming, Asynchronous Programming

**Databases & Storage:** SQLite, Encrypted Local Storage, SQLCipher, Data Modeling, Offline Data Persistence

**Backend & Cloud Services:** Firebase Authentication, Cloud Firestore, Firebase Realtime Database, Backend Integration, REST API Consumption

**Security & Networking:** Application Security Concepts, End-to-End Encryption Concepts, Secure Data Storage, Network Communication, Authentication & Authorization

**DevOps & CI/CD:** CI/CD Pipelines, Build Automation, Continuous Integration, Version Control Workflows, Deployment Automation

**Web Hosting & Server Management:** cPanel, WHM, WHMCS, DNS Management, Linux Server Basics, Hosting Infrastructure

**Tools & Development Platforms:** Git, GitHub, Figma, Android Studio, Visual Studio Code, Postman

**UI/UX & Design:** Figma, Wireframing, Prototyping, Design Systems, Mobile-First Design, Usability Optimization  
**Interests**

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**E-Sports:** Call of Duty, Fortnite, Counter-Strike, Dota, FIFA

**Photography Videography:** Mobile Photography, Cinematic Shots, Visual Storytelling

**Content Creation:** Short Video Content, Social Media Content

**Sports:** Cricket, Football

## References

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