

MALICK MUHAMMAD ARSALAN NOOR

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PROFESSIONAL SUMMARY

Mobile & Backend Software Engineer with **8+ years** of professional experience across **fintech, travel, e-commerce**, and smart-home domains. Specialized in **mobile application development (Flutter, Dart, Kotlin)** and expertise in **.NET (C#), REST APIs, and SQL**. Delivered secure **on-device ML features (TFLite, ML Kit, OpenCV)**, including **face recognition** and **OCR**. Implemented **Clean Architecture**, automated **CI/CD pipelines**, and **trained** junior developers in modern **Android/Flutter** practices, reducing **onboarding time** and strengthening **team delivery capacity**.

CORE COMPETENCIES

Mobile Application Development:

- **Flutter (Dart):** BLoC, Cubit, Provider, Navigation, GoRouter/Navigation 2.0
- **Android (Kotlin):** Jetpack Components (ViewModel, LiveData, Jetpack Navigation, CameraX), RxJava/Coroutines, Dagger/Hilt, Espresso, Retrofit, OkHttp, Gradle, Proguard
- **Architectures & Patterns:** MVVM, Repository Pattern, Factory Pattern, Clean Architecture, MVC
- **Integrations:** OAuth 2.0, RESTful API, GraphQL, Google Maps, Webhooks, Google Analytics, Firebase Crashlytics
- **IDE:** Cursor, VS Code, Android Studio, Visual Studio 2022

On-Device ML & Computer Vision (Mobile):

- On-device Android implementations with TensorFlow Lite (TFLite), ONNX, and Google ML Kit, ML-based OCR, Face Detection & Recognition, Liveness Detection, Fingerprint Presence Detection

Security & Compliance:

- Biometric Authentication, KYC & Identity verification, Card Track Formats (ISO Standards)

Server-side & Databases:

- **Cloud & Local DB:** Firebase (Firestore, Realtime DB), Room/SQLite, Hive, SharedPreferences
- **Server-side:** .NET (C#), MS SQL, Windows Services, Crystal Reports, REST/SOAP API

Testing & CI/CD Automation:

- Unit Testing (Flutter: flutter_test, Mockito), Postman
 - CI/CD Automation (Git Hub Actions, Play Store Deployments)
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PROFESSIONAL EXPERIENCE

IRVINEi – Senior Software Engineer (Flutter/Kotlin)

Feb 2025 – Present

Mobile Engineer at IRVINEi, integrating **on-device AI vision and voice** for a **smart doorbell** and **home hub**.

- Led the end-to-end “Hey Oval” **wake-word** effort for a **smart door-lock consumer app**—proved it in native Android using **TensorFlow Lite**, packaged it as a reusable **Flutter plugin** and integrated it into production for hands-free activation with a smooth **Speech-To-Text** handoff.
- Partnered with the AI team and ensured a clean, maintainable implementation for the app.

Sasta Ticket – Software Engineer (Flutter)

Nov 2023 – May 2025

Core Flutter developer in a 4-member mobile squad powering Sastaticket’s travel platform.

- Maintained a **98% crash-free rate** across Android/iOS using Firebase Crashlytics.

- Reduced **API calls** by **30%** with caching strategies, improving checkout speed and lowering backend load.
- Increased test coverage to **90%** and cut post-release defects by 25% via automated pipelines.
- Automated **Play Store deployments**, reducing release prep time by **40%**.

[Love For Data \(LFD\)](#) – Mobile Application Developer

Mar 2022 – Nov 2023

Sole mobile dev partnering with the data-science team to embed on-device ML.

- Built a **TFLite-based** verification feature with **OCR** for **real-time criminal record checks**.
- Increased **face recognition accuracy** by **98%** and integrated **Geofencing** for **attendance validation**.
- Integrated **fingerprint detection** and **TFLite-based** multi-factor authentication, cutting onboarding time by **40%**.
- Migrated legacy **MVC** code to **MVVM**, reducing defects by **30%** and enhancing maintainability.

[Centegy Technologies](#) – System Analyst (.NET Developer)

Mar 2021 – Mar 2022

One of two .NET engineers maintaining the sync engine for 400 + retail & distribution sites.

- Enhanced a **.NET (C#) sync engine** for **200+ retail sites**, improving **system reliability** with **advanced error handling**.

[TPS Worldwide](#)

Senior Software Engineer (.NET/Flutter)

Mar 2020 – Feb 2021

Developed fintech solutions for leading Pakistani banks, focusing on cross-platform migration, utility systems, and reconciliation services.

- **Rebuilt** the **MCBI Mobile Banking App** from Xamarin to **Flutter**, enhancing cross-platform performance and maintainability for both **iOS** and **Android**.
- Mentored 3 interns in **Utility Bill Payment System (UBPS)** architecture, code review, and testing, enabling them to deliver tasks independently.
- Engineered **Fund Settlement Services** for Allied Bank, establishing robust reconciliation and lowering errors.

Software Engineer (.NET)

Dec 2016 – Mar 2020

Software Engineer focused on card issuance and reporting tools, and financial reporting for banks.

- Designed Crystal Reports on **MS SQL** to handle large financial datasets and daily transaction logs.
- Automated **over-the-counter debit card allocation** by implementing **Bulk Card Issuance**, cutting manual tasks by **30%** and enhancing customer satisfaction.
- Implemented **card personalization & track format** for debit card issuance systems by integrating **domestic card schemes**.

EDUCATION

B.S. Computer Science – [Hamdard University](#)

2016

CERTIFICATIONS

- **The Complete Flutter Development Bootcamp using Dart** – App Brewery
- **Managing State in Flutter, Creating a Connected App with Flutter, Developing Mobile-Specific Features with Flutter** – Pluralsight
- **Python for Everybody Specialization** – University of Michigan
- **Data Science Orientation, Tools for Data Science, Python for Data Science, and AI** – IBM Certification