

# HAMZA TARIQ

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## OBJECTIVE

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Software Engineer specializing in Flutter mobile development and IoT integration with 3+ years of experience building production applications used by thousands of users. Proven track record of delivering 15+ full-stack mobile applications across e-commerce, healthcare, IoT, and fintech domains. Seeking to leverage expertise in cross-platform development, Firebase architecture, and hardware integration to drive innovative solutions in a dynamic engineering environment.

## EDUCATION

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**Bachelors in Computer Engineering** 2021 - 2025  
CEME, NUST, Rawalpindi

**Higher Secondary Education (Pre-Engineering)** 2019 - 2021  
MTB College, Sadiqabad

## SKILLS

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<b>Mobile Development</b>	Flutter, Dart,GetX, Provider, Firebase Suite (Auth, Firestore, RTDB, FCM, Analytics, Crashlytics), REST APIs, JWT Authentication
<b>Backend &amp; Database</b>	Firebase, MongoDB, PostgreSQL, SQLCipher, Node.js
<b>IoT &amp; Hardware</b>	ESP32, Arduino, MQTT, SSH2, Cisco RoomOS xAPI
<b>Payment Integration</b>	Stripe, PayPro, Secure Payment Gateways, Google Pay
<b>AI/ML</b>	Google ML Kit, OCR, Hugging Face, BERT, NLP, LLM Integration
<b>Tools &amp; Platforms</b>	Git, GitHub, Postman, Jira, Notion, Android Studio, Xcode, Blender, Unity
<b>Other Languages</b>	Python, Java, C++, C, C#, JavaScript, HTML/CSS, SQL, MATLAB

## EXPERIENCE

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**Software Engineer** June 2025 - Present  
RISETech, Islamabad

- Spearheading the full-cycle development of IoT-enabled mobile applications using Flutter, ensuring seamless communication between mobile interfaces and hardware devices.

**AI Development Internship** March 2025  
MTBC - CareCloud, Rawalpindi, Punjab, Pakistan

- Learned a few fundamental AI algorithms and gained practical expertise with a few real-world AI applications.

**Freelancer - Fiverr** 2023 - 2025  
Level 2 Seller on Fiverr

- Successfully completed 50+ Flutter and Blender projects, achieving 4.8/5.0 rating as Level 2 seller.
- Delivered cross-platform mobile applications, 3D modeling, and animation projects with 95%+ client satisfaction rate.

**Web Development Internship** June - August 2022  
Eziline Software House Pvt Ltd, Rawalpindi, Punjab, Pakistan

- Developed websites as a front-end developer, gaining valuable experience in problem-solving and critical thinking.

## PROJECTS

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Full portfolio with 15+ projects: [GitHub.com/Hmmza-tariq/Flutter-Projects](https://github.com/Hmmza-tariq/Flutter-Projects)

### **AI Recruiter - Final Year Project** — *Flutter, Python, MongoDB, LLM, BERT*

- Engineered automated recruitment platform processing resumes using NLP and LLM-based parsing algorithms.
- Implemented BERT score and cosine similarity for resume scoring, filtering candidates.
- Developed AI chatbot for psychometric/psychomotor evaluations, generating detailed candidate personas for HR teams.

### **Green Eats - Food Delivery Platform** — *Flutter, Firebase, PayPro, GetX* — [Play Store](#) — [App Store](#) — [Web](#)

- Built full-stack homemade food delivery app serving 1000+ active users with 95% customer satisfaction rate.
- Architected meal planning system supporting custom/fixed/subscription plans with multi-timeslot scheduling (Breakfast/Lunch/Dinner) and organization support for hostels/offices.
- Integrated PayPro payment gateway, digital wallet system, real-time order tracking, and Firebase suite (Auth, Firestore, FCM, Analytics, Crashlytics).

### **Celiach-IA - Gluten Detection App** — *Flutter, ML Kit, OCR, SQLCipher, Stripe*

- Developed AI-powered gluten detection app for celiac disease patients with 3M+ encrypted product database.
- Implemented real-time barcode scanning, OCR ingredient analysis with confidence scoring, and offline-first architecture with delta sync.
- Integrated JWT authentication, trial mode (100 scans), Stripe subscriptions, and automatic blur detection for quality assurance.

### **Room-OS - Enterprise Meeting Controller** — *Flutter, Cisco xAPI, SSH2, QSC Integration*

- Built professional iPad app controlling multiple Cisco RoomOS devices across enterprise meeting rooms.
- Integrated WebEx/Zoom/Teams platforms, xAPI for device control (camera PTZ, volume, DND), SSH2 connectivity, and QSC audio/visual systems.
- Implemented multi-variant architecture with secure credential storage and real-time standby monitoring.

### **Water Flow Monitor - IoT System** — *Flutter, ESP32, LoRa, Firebase RTDB, Geofencing*

- Engineered IoT water monitoring system with ESP32, YF-S201 flow sensor, and LoRa network for leak detection.
- Developed 24/7 background service with geofencing alerts, automated valve control, and real-time analytics (hourly/daily/weekly).
- Automatic leak detection and FCM push notifications.

### **Additional Published Apps**

- **My NUST** - University utility app with GPA calculator, LMS integration, 5000+ downloads ([Play Store](#), [GitHub](#))
- **WatanPay** - International mobile top-up app for Afghanistan with secure payment processing ([Play Store](#))
- **WDYT** - Social opinion-sharing platform with emoji battles ([Play Store](#), [App Store](#))

### **CERTIFICATIONS**

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**The Complete Flutter Development Bootcamp with Dart**

June 15, 2023

Platform: [Udemy](#)

Instructor: Dr. Angela Yu

Duration: 28.5 hours

**Flutter Advanced Course - Clean Architecture with MVVM**

Aug 28, 2023

Platform: [Udemy](#)

Instructor: Mani Farid

Duration: 20.5 hours

**International Kangaroo Mathematics Contest**

2014, 2015, 2016

By: [IKMC](#)

Highest Position: Institution Level: 1, District Level: 5, National Level: 39

Highest Level: Cadet

**NUST High Achievers Certificate**

2022, 2023

By: [National University of Science and Technology](#)

Semesters: 3rd, 4th