

 /tariqjamel98@gmail.com

 /Tariq Jamil

 /tariqjamel

TARIQ JAMIL
+92 303 8441 865
F6, Islamabad
Pakistan

SUMMARY

With a solid academic foundation in programming and circuit systems, I have completed specialized courses in IoT and app development, gaining hands-on experience with technologies such as Jetpack compose, Firebase and API integrations.

I am now seeking an internship opportunity that will allow me to further enhance my skills while contributing to innovative projects.

Skills/Tools

- Programming Languages: Kotlin, C/C++, Python, Verilog (VHDL)
- Android Development: Jetpack Compose, XML layout, Firebase (Auth, Realtime DB, Cloud Messaging), Retrofit2, Room DB, Dagger Hilt
- IoT & Embedded Systems: ESP32, Arduino UNO, Sensor Networks, Circuit Design (Proteus, PsPice)
- Backend/APIs: RESTful APIs, WebSockets
- Databases: SQLite, Firebase Realtime DB, Room DB
- Development Tools: Android Studio, Git/GitHub, Postman, Arduino IDE

EXPERIENCE

Intern at HEC NRPU PROJECT FOR ORTHOTIC DEVICE

Jan 2025 to Current

Designed EMG for Orthotic Device

EDUCATION

BS Computer System Engineering

2022 to 2026

University of Engineering & Technology - Peshawar

CERTIFICATIONS

- Kotlin for Java Developers (JetBrains)
- Using Jetpack Compose with Kotlin: Create LazyColumn Lists (Coursera)
- Introduction to IoT and Embedded Systems (UC Irvine, Coursera)
- Embedded Systems using C (EDUCBA)
- IoT Enabled Farming (EDUCBA)

PROJECTS

Self Learning

To Do App:

- A task management app allowing users to create, update, and delete tasks.
- Features email signup, authentication, and scheduled task notifications.
- SQLite database, push notifications.

Snap Filter:

- Image editing app allowing user to add filters, stickers and texts.
- User can add image from gallery and click new image as well.
- Available on Google Play.

Chat App:

- A messaging app that supports real-time communication between users.
- Includes phone number login with OTP, profile customization, and push notifications.
- Firebase authentication, messaging, storage.

Weather App:

- An app providing real-time weather updates for multiple cities.
- Features dynamic UI adjustments based on weather conditions and animated visuals.
- Weather API, Retrofit, Room database.

Chat Bot App:

- An interactive chatbot app for engaging in conversations with users.
- Allows history viewing, clearing, and searching within the chat history.
- Gemini API, navigation drawer.

Dictionary App:

- An app that provides word definitions and usage examples.
- Structured using MVVM architecture for clear and manageable code.
- Jetpack Compose, Dagger Hilt, Retrofit, MVVM, Coroutines, Flow.

Semester Projects

Racing Spiderman (Digital Logic Design (DLD) project):

Created a project where Spiderman climbs and races on a rope using ESP32 and other necessary components.

Solar Sunlight Tracker (Engineering Workshop Project):

Designed a system for solar panels to track sunlight and rotate towards the light for optimal energy generation.

Water Management System (Circuit and Systems Project):

Developed a system that detect different water levels triggering an LED to glow accordingly.

Part of Speech Tagging (C++ project):

Implemented a system to identify parts of speech in user-input sentences.

Candy Crush Game (OOP Project):

Developed using SFML library for graphical interface and game mechanics.

Spell Checker (DSA Project):

Implemented a system that checks the spelling of user-entered sentences using Levenshtein Distance for error detection and correction.

Server-Client Messaging System (Operating Systems project):

Developed a client-server messaging system with message storage on the server using pthread management and ftok() in C language.