

Farhan Ijaz Khan

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Profile

Recent Computer Science graduate with internship experience and a deep passion for Internet of Things (IoT) development. Hands-on experience in hardware and software integration, demonstrated through the successful deployment of a hardware-integrated Smart Lab Automation system. Eager to bring my foundation in ESP32 microcontrollers, real-time databases, and mobile applications to a real-world environment, with a strong willingness to learn, grow, and transition into a full-time IoT engineering role.

Education

BS Computer Science , University of Swabi	2022 – 2026
Intermediate in Pre-Engineering , Orbit College Thandkoi, Swabi	2018 – 2020
Matric in Science , Frontier Public School, Bamkhel, Swabi	2016 – 2018

Projects

- **Smart Lab Automation System (IoT) — Final Year Project** *Hardware & Software Integration*
Designed, wired, and programmed an end-to-end IoT automation system. Bridged the gap between hardware and software by integrating ESP32 microcontrollers and physical sensors with a Firebase real-time database. Developed a companion Flutter mobile application for seamless remote monitoring and control.
- **Production Mobile Applications — EasyInvoice & GameBox** *Software & Cloud*
Built and launched robust cross-platform applications on the Google Play Store and Huawei AppGallery. Handled the full product lifecycle, including complex state management, local/cloud database implementation, and store deployment.
- **Kameti (Chit Fund Manager)** *Frontend & Backend Sync*
Collaborated on the development of a financial management app. Managed frontend implementation, API integration, and ensured proper backend synchronization for a stable production release.

Technical Skills

- **IoT & Hardware:** ESP32 Microcontrollers, Sensor Integration, Wokwi Simulation, Basic Electronics Wiring
- **Programming Languages:** C++, Dart, Java
- **Software Development:** Flutter (Cross-platform Mobile UI, State Management), Git/GitHub
- **Backend & Cloud:** Firebase (Realtime Database, Authentication, Cloud Functions)

Experience

Flutter Developer Intern, Code Alpha

25 June 2025 – 25 Sept 2025

- Completed a 3-month internship focused on software development and integration.
- Developed and maintained mobile applications, focusing on bridging intuitive UI with back-end services.
- Integrated Firebase backend services (authentication and real-time database) into production-ready apps.
- Gained practical experience working in a collaborative, real-world development environment.

Leadership & Extracurricular

- **Executive Member, Debating Club** — Organized events to improve critical thinking and communication.
- **Member, Proctorial Board** — Assisted in maintaining discipline and administrative support at the university.

Languages

English (Professional Working), **Urdu** (Native/Bilingual), **Pashto** (Native/Bilingual)