

# HAMZA EHSAN

## Software Engineer

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### PROFILE

Experienced Software Engineer specializing in cross-platform mobile development using Flutter and Dart. Proven track record of building scalable, high-performance apps with clean architecture, efficient state management (BLoC, GetX), and Firebase integration. Strong problem solver with expertise in modular app design, CI/CD, and effective team collaboration.

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### PROFESSIONAL EXPERIENCE

#### Flutter Developer

**Sybrid Private Limited – A Lakson Group Company** | Karachi | *May 2025 – Present*

- Developed and delivered fully functional cross-platform applications using Flutter and Dart.
- Designed and implemented multiple UI screens based on client requirements, ensuring responsiveness and visual consistency.
- Integrated RESTful APIs, managing both data handling and UI presentation for diverse app use cases.
- Independently tested and debugged application flows, improving stability and performance.
- Collaborated with the team to align functionality with business logic, suggesting enhancements to usability.
- Applied clean code and modular design principles to ensure scalability and maintainability.

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#### Junior Flutter Developer

**Hysab Kytan** | Karachi | *Oct 2024 – Apr 2025*

- Designed and maintained cross-platform applications with Flutter and Dart, ensuring high responsiveness across Android and iOS.
- Implemented BLoC pattern for state management, separating UI from business logic.
- Applied clean architecture principles for scalable and testable codebases.
- Built pixel-perfect UIs by translating Figma designs into custom Flutter widgets.
- Integrated Firebase services (Authentication, Firestore, Cloud Messaging) for real-time data handling.
- Participated in sprint planning and code reviews, ensuring quality and best practices.
- Optimized app performance and responsiveness by fixing layout issues across multiple devices.
- Contributed reusable components and shared logic to accelerate feature development.

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#### Flutter Developer Intern

**SOC Solutions LLC** | Karachi | *Aug 2024 – Nov 2024*

- Worked on feature development and state management using GetX.
- Integrated Firebase (Authentication, Firestore), Stripe (payments), and Google Maps APIs.
- Designed and implemented UI screens based on client requirements.
- Independently tested and debugged flows to ensure stability and performance.

- Followed clean code and modular design practices for maintainability.

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## EDUCATION

**Muhammad Ali Jinnah University** | Karachi

Bachelor of Science in Software Engineering (BSSE) | *Sep 2020 – Feb 2025*

**Govt. Degree College Malir Cantt**

HSSC | *Sep 2018 – May 2020*

**Fazaia Degree College Faisal**

SSC | *Sep 2016 – May 2018*

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## RESEARCH WORK/PROJECTS

### **AR-Based Software Architecture Visualization** (Research Work)

Conducted academic research as part of a coursework project on using Augmented Reality (AR) to enhance software architecture visualization. Explored AR-based frameworks and proposed a hybrid 2D–3D visualization model to improve stakeholder communication and system understanding.

Evaluated existing AR tools and their limitations in real-world software design environments. Suggested an improved visualization approach to reduce cognitive overload and enhance collaboration among developers and clients.

### **Agile and DevOps Combined for Enhanced Application Development** (Research Work)

Completed a course-based research project analyzing how integrating Agile methodologies with DevOps practices can enhance the software development process. Focused on automation, continuous integration, and collaborative workflows for faster, more efficient application delivery.

Assessed case studies highlighting process improvements from Agile-DevOps integration. Proposed a unified framework to optimize team coordination, accelerate releases, and ensure higher software quality through feedback-driven development.

### **Uni Dreamz** (Real Time Project)

Developed an AI-powered mobile application to assist students planning to study abroad. Implemented a personality-based course recommender system using machine learning techniques to match users with suitable academic programs.

Scraped data from over 120 global universities to provide information on undergraduate and postgraduate programs, integrated a web crawler for real-time job opportunities, and added an accommodation finder that helps students locate budget-friendly housing options worldwide.

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## SKILLS

- **Languages/Frameworks:** Flutter, Dart
- **State Management:** BLoC, GetX, Provider
- **Architecture:** Clean Architecture, Modular Design
- **Databases:** Firebase Firestore, Firebase Realtime Database, MySQL, MongoDB
- **Tools:** Git, GitHub, CI/CD, Linux
- **UI/UX:** Flutter Widgets, Custom UI Components, Material Design, Figma
- **Others:** API Integration, Debugging with Flutter DevTools, Cloud Messaging, Stripe, Google Maps, Integrated AI Models Object detection Model, Face Detection, Text Recognition, Image Labeling, On Device Translation, Smart Reply.