Adel Saeed Abdullah

Software Engineer

Egypt 01020237163 dev.adelsaeed@gmail.com Adel Saeed

Adel Saeed

Summary

- Junior Software Engineer with a background in Computer Science and a strong interest in building scalable, high-quality software applications. Skilled in Dart, Flutter, RESTful API integration, state management, and clean architecture. Familiar with Firebase services, local databases, backend integration, React, and PHP Laravel, with a strong focus on writing clean, maintainable code and continuously improving development skills.

Experience

- **Software Engineer – Olqan | Website**

  June(2026) – *Present*

  - Developed and maintained RESTful APIs using PHP Laravel to support core system functionalities.
  - Built and maintained frontend features using Next.js and React.
  - Integrated frontend components with backend APIs to deliver reliable and efficient user experiences.
  - Followed clean code principles and a structured architecture to improve code maintainability and scalability.

Education

- **Bachelor of Computer Science**
  Faculty of Computers and Information Technology, Assiut University
  2022 – 2026
  GPA: 3.58 / 4.00

Projects

Nomad Test Agent (Next.js & Flutter) | GitHub | Demo

- Developed a responsive web application using **Next.js** and **React**.
- Implemented **React Query** with caching to optimize data fetching and improve application performance.
- Added **Light Mode** and **Dark Mode** support for a better user experience.
- Optimized UI responsiveness and reduced unnecessary API requests through efficient caching strategies.
- **Currently developing** a cross-platform **Flutter** version of the application using **Clean Architecture**, **Riverpod** for state management, and **Dependency Injection**, **Drift** for Local Database with a focus on scalability, maintainability, and clean code principles. | GitHub

SehhaLink – Medical Mobile Application (In Progress) GitHub | Demo

- Developed a medical mobile application using Flutter with Cubit, Repository Pattern, and Clean Architecture to ensure scalable, maintainable, and testable architecture.
- Integrated Localization, Unit Testing, and Fastlane-based CI/CD workflows to improve app quality, maintainability, and deployment automation.
- Implemented medical analysis management with AI-powered health summaries, medication tracking, and family health monitoring features for parents and children.

Attendo – Smart Attendance & Identity Verification App GitHub

- Built a Flutter mobile application using Cubit and Clean Architecture for scalable, maintainable, and testable architecture.
- Implemented fully on-device OCR using Tesseract and ML models to detect ID cards, extract key fields, and normalize Arabic numerals to English.
- Designed an image preprocessing and multi-stage cropping pipeline to significantly enhance OCR accuracy.
- Developed a secure offline identity verification screen to match captured face data with ID card images, ensuring real user validation without external servers.
- Built a role-based system (Admin/User) with session-based attendance tracking and real-time data synchronization.
- Implemented a local mobile-hosted server enabling automatic device discovery and peer-to-peer communication over the same network.
- Implemented Localization, adaptive Light/Dark themes, and responsive UI enhancements to improve user experience and accessibility.
- Integrated Sentry for crash/error monitoring and configured Fastlane for automated build and deployment workflows.

Quiz-room – Desktop Exam Management System | Electron.Js GitHub | Demo

- Developed a desktop-based quiz and exam management system using **Electron.js**, designed to enhance the online examination experience.
- Built a **centralized dashboard** giving students a clear view of their enrolled courses, current exams, and real-time progress tracking.
- Implemented **automated screen recording** during exams, with recordings securely chunked and uploaded to instructors for integrity monitoring.
- Designed a **video chunking pipeline** to ensure recording reliability, preserving full backups in case of technical interruptions.
- Delivered **exam results and course rankings**, allowing students to benchmark their performance within each course..

Skills

- **Mobile Development:** Flutter, Dart, Flutter Flavors (Dev / Staging / Prod), Localization, Android (Java, Kotlin)
- **Architecture & State Management:** Clean Architecture, SOLID Principles, Design Patterns, Cubit, Bloc, Riverpod, Provider
- **APIs & Networking:** REST APIs, Dio, Network Caching, WebSockets
- **Databases & Backend:** Firebase (Auth, Firestore, FCM), Supabase, SQL
- **Local Storage:** Shared Preferences, Hive, SQLite, Isar, Drift
- **Payments & Notifications:** Stripe, Paymob, Local Notifications, FCM
- **Code Generation:** Freezed, json_serializable
- **CI/CD:** Fastlane, Codemagic, GitHub Actions
- **Tools & Quality:** Git, GitHub, Unit Testing, Sentry, Firebase Crashlytics, Flutter DevTools, Dart Isolates
- **AI-Assisted Development:** AI Agents, MCP, Agent Skills, Claude Code, Prompt Engineering
- **Web & Other:** JavaScript, TypeScript, PHP, React, React Query, Redux
- **Fundamentals:** Data Structures & Algorithms, OOP, Problem Solving

Certificates

- Database Fundamentals Link
- Cloud and Virtualization Concepts Link
- Red Hat System Administration one Link

Awards

Winner 1ST Place – NASA Space Apps Assiut Hackathon.