

Mohamed Nabil Abdo

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Profile Summary

Android Developer with 3 years of experience in building and deploying mobile apps using Java and Android SDK. Expertise in Firebase, RESTful APIs, and creating user-friendly interfaces. Skilled in optimizing app performance and implementing real-time features. Passionate about mobile technology and continuous learning.

Education

July 2021

Bachelor of Engineering, Kafr El-Shaikh University.

Department: Computer Systems. **Grade:** Very Good.

Graduation Project: Computer-Vision-Based Quality Inspection

- Designed mobile application to show insights.
- Developed PLC Program to control the inspection process for the defected products.
- Designed PCB circuits for projects, assembled and installed project parts.

Experience

Sep. 2021 – Present

Software Engineer, UrApp, Kafr Elsheikh.

- Collaborating with designers and product managers to conceptualize and develop features
- Design user-friendly and intuitive interfaces that adhere to Material Design principles.
- Writing clean, efficient, and testable code using Java.
- using the Android SDK to create dynamic and responsive applications.
- Integrating apps with back-end services and APIs.
- Testing and debugging apps to identify and fix bugs.
- Version Control using Git for code management and collaboration.
- Familiarity with Google Play Store publishing guidelines and experience publishing apps.
- Staying up to date with the latest Android technologies and best practices.

Projects

Election Management App

A secure app for managing online elections, allowing voters to cast ballots and view real-time statistics.

Technologies Used:

Java, Firebase, TensorFlow Lite, ML Kit, CameraX, Glide, MPAndroidChart, PinView, CountryCodePicker.

Key Features:

- | | |
|------------------------------------------------------|----------------------------------------------------|
| - Face ID voter authentication (TensorFlow, ML Kit). | - Real-time notifications for updates and results. |
| - Secure election management via Firebase. | - Role-based access for voters and officials. |
| - Visual analytics with interactive charts. | - QR code-based voter participation. |

Secondary Certificate Results App (10k+ Downloads on Google Play)

A results tracking app for students to search and view secondary certificate exam results by name or seat number, with detailed scores displayed.

Technologies Used:

Java, Firebase, AndroidX, Material Design, Glide, MPAndroidChart, StyleableToast, XlsxParser, ShapeOfView, GIF Drawable, ShadowIndicatorBottomNav, Digit Roll Counter.

Key Features:

- Search results by name/seat number.
- Real-time updates via Firebase.
- Detailed score display with a dynamic UI.
- Live student counter with animations.
- Graphical result visualization (MPAndroidChart).
- Excel file parsing for bulk results.
- Styled notifications (StyleableToast).
- GIF support and smooth image loading (Glide).
- Multi-device compatibility.

Impact:

Over 10k downloads, widely used by students.

Biology Amany (500+ Downloads on Google Play)

An educational app for high school biology students, offering video lessons, interactive quizzes, and real-time chat with teachers.

Technologies Used:

Java, XML, Firebase, Glide, ZXing, AndroidPdfViewer, StyleableToast, YoutubePlayer, ShapeOfView, RoundCornerProgressBar, EasyPopup, Volley.

Key Features:

- Video lessons with detailed explanations.
- Real-time leaderboard tracking.
- Interactive student-teacher chat.
- Online quizzes with instant feedback.
- QR code access to student profiles.
- PDF viewer for course materials.
- Custom notifications for reminders.
- Dynamic, user-friendly interface.

Impact:

Used by high school students for biology exam prep, with over 500 downloads.

iStudy App

An educational app offering courses, video content, and interactive tools to help students learn and track progress.

Technologies Used:

Java, Firebase, OpenAI GPT-3, OkHttp, Volley, ShapeOfView, StyleableToast, MPAndroidChart, AndroidPdfViewer, Dexter, Zoomage.

Key Features:

- | | |
|---------------------------------------------|-----------------------------------------|
| - AI-generated lesson summaries. | - Integrated YouTube video player. |
| - Video tutorials with progress tracking. | - Progress tracking and exams. |
| - PDF viewer for course materials. | - Leaderboards for progress tracking. |
| - Real-time chat support. | - Notifications for updates and alerts. |
| - Customizable UI with visual enhancements. | - Leaderboards for progress tracking. |

Beauty Dental App

A healthcare app for scheduling appointments with dental and beauty specialists, tracking medical history, and past visits.

Technologies Used:

Java, Firebase, Glide, Volley, Bubble Navigation, Zoomage, Canvas & Path APIs.

Key Features:

- Appointment scheduling with service selection.
- Leaderboards for progress tracking.
- Appointment tracking with real-time notifications.
- Medical history tracking, including X-rays.
- Doctor profiles with reviews.
- Interactive tooth model with pain point selection.

Courses

- **Java Programming and Software Engineering Fundamentals**
- **Introduction to software testing concepts & techniques**, Mahara-Tech (Online)
- **Effective Test Case and Bug Report Writing Techniques**, Mahara-Tech (Online)

Skills

Technical:

Very good working knowledge of:

- Programming Languages: Java, XML,
- Frameworks/Libraries: Android SDK, Firebase, Retrofit, Glide, Volley, MPAndroidChart
- Database & Networking: Firebase Realtime Database, SQLite, RESTful APIs
- Version Control: Git, GitHub, GitLab
- Tools & Platforms: Android Studio, Gradle, Google Play Console
- Unit and Integration Testing.
- UI/UX Design: Material Design, ConstraintLayout, RecyclerView, Custom Views
- Other Tools: CameraX, ML Kit, TensorFlow Lite, Dexter (Permissions), Zoomage (Image Zoom)
- Security and Encryption
- Material Design Guidelines
- Debugging and Troubleshooting

Soft Skills:

- Problem Solving and Critical Thinking
- Attention to Detail
- Adaptability and Flexibility
- Time Management and Prioritization
- Collaboration and Teamwork
- Communication and Presentation Skills
- Creativity and Innovation
- Analytical Thinking and Decision Making
- Attention to User Experience and Design
- Empathy and Customer-Centric Mindset
- Leadership and Mentoring
- Continuous Learning and Self-Improvement

Languages:

- Good Command of **English**.

Volunteer Work

May. 2019 – Feb. 2020

Member, Technical Committee, IEEE.

- Provided guidance for the matched mentee.
- Transferred information and experience to young mentees.