Amr Elganainy

Dortmund
Master's in Internet Security

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PROFILE (KEY QUALIFICATIONS)

Motivated **Mobile Developer** and **Cyber Security Specialist** with a specialization in **Android security** and development. Strong experience in designing and implementing LLM-based tools (e.g., AI-driven app crawlers) and automated testing (**Appium**). Detail-oriented, team-focused, and specialized at the intersection of secure software development and network analysis.

Technical Focus: Proficient in core languages **Kotlin** and **Java** (Android SDK, Jetpack Compose, MVVM), as well as **Flutter** and **Python**. Solid backend experience with **Firebase** and REST APIs.

EDUCATION

- **Westfälische Hochschule, Gelsenkirchen, Germany**   *Focus: Mobile Security*
  Master of Science in Internet Security   10/2022 – 02/2026 (expected)

- **Mansoura University, Egypt**
  Bachelor of Science in Computer Science   09/2015 – 07/2019

WORK EXPERIENCE

Working Student (Flexible Assignments, Logistics/Production Focus)   **11/2022 – Present**
Jobvalley | Bochum, Germany
- **Flexibility & Adaptation:** Deployed across 30+ partner companies (logistics, retail) with rapid onboarding into diverse inventory management systems.
- **Responsibility:** Performed tasks in quality control, order picking, and inventory management.

Logistics Associate (Returns Management)   **02/2022 – 10/2022**
Amazon | Witten, Germany
- **Quality Assurance:** Conducted quality and quantity checks on returns to ensure inventory accuracy.
- **Efficiency:** Achieved daily performance targets (KPIs) through efficient warehouse organization.

Mobile Application Developer (Android)   **08/2019 – 10/2021**
Ajiad | Gharbeya, Egypt
- **Native Development:** Designed and developed HR and inventory applications using **Java** and **Kotlin** in **Android Studio**.
- **Architecture & Data:** Implemented **MVVM** architecture; data management via **Room (SQL)** and **Firebase**; version control using **Git**.

PROJECTS

- **Captive Portal Analyzer (Android, Kotlin)**   Github Showcase

  – Development of an Android app for analyzing public Wi-Fi captive portals, privacy assessment via Gemini AI, and packet capture using PCAPDroid.
  – Utilized Jetpack Compose, MVVM, Room, OkHttp, and Firebase for efficient data management.

- **Appium Traverser (AI-Driven Mobile App Crawler)**   Github Showcase

  – AI-based Android app crawler using Google Gemini for visual and structural app exploration.
  – Automated testing, coverage analysis, and app discovery.

- **VibeHired – AI Job Application Assistant**   Github Showcase

  – Automated CV analysis, extraction of job requirements, and ATS evaluation.
  – Cover letter generation, job matching, and token-based API usage.

- **Chat App (Android, Kotlin)**   Github Showcase

–Real-time messaging, notifications, and multimedia support.

–Focus on stable architecture and intuitive UI.

- **Gym Masters (Android Fitness Community App)** Github Showcase

  –Social fitness app built with Jetpack Compose.

  –Firebase Firestore, Room offline caching, Firebase Auth.

  –MVVM, Coroutines, and Hilt.

- **Reminderly (Android, Kotlin)** Github Showcase

  –Reminder and alarm app with recurring alarms.

  –Dark mode, localization, and WorkManager.

Technical Skills

- **Languages & Scripting:** Kotlin, Java, Python, Dart (Flutter), SQL
- **Mobile & Frameworks:** Android SDK, Jetpack Compose, MVVM, WorkManager, Room, Material Design 3
- **Architecture & Tools:** Git, CI/CD, Dependency Injection (Hilt), REST APIs, OkHttp, PCAPDroid
- **Cloud & Databases:** Firebase (Firestore, Auth, Storage), Realtime DB, SQLite
- **Security & Testing:** LLM-based testing, Appium, Captive Portal Analysis, Network Analysis

Languages

- **Arabic:** Native
- **German:** C1 (telc Hochschule)
- **English:** B2 (Bachelor's program language)