

Abdeltwab M. Fakhry

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EXPERIENCE

 **Atomica AI** | *Full-time | Remote* Giza, Egypt
Nov. 2022 – Present

Software Engineer III

- Overhauled DICOM segmentation app in a 2-person team — adopting msgpack and Qt-compliant architecture — improving algorithms by 2x+ and becoming the migration baseline for all teams.
- Introduced features first — internationalization, feature flags, manual bug reporting, a new notification system, and reusable UI components — later adopted across all 5 product teams.
- Self-taught Flutter to design and deliver the Carestream DICOM converter UI/UX from scratch.

TECHNICAL SKILLS

 **Languages:** C/C++ • Python • Go • JavaScript • Solidity • Bash • QML

 **Concepts:** OOP • Design Patterns • Algorithms & Data Structures • Agile/Scrum • Unit Testing

 **Technologies:** Qt • Flutter • Next.js

 **Tools:** Linux • Git • CMake • Docker

SELECTED PROJECTS

 **Loc** | *Flutter | Android* Jan. 2023 – Present

Location-based reminder app for Android.

- Location-based reminders with custom geofences and audible arrival alerts; offline via OpenStreetMap with live location display and persistent storage.

 **Devault** | *Next.js - Solidity - IPFS - Hardhat - Docker | dApp* Apr. 2022 – Jul. 2022

Decentralized cloud storage with end-to-end encryption.

- Decentralized, end-to-end encrypted file storage built with Next.js and Solidity; connects via MetaMask, stores files on IPFS, and encrypts everything client-side before upload.

 **Next Prayer** | *C++ - CMake | CLI* Sep. 2021 – Present

Islamic prayer times and Hijri calendar for Unix status bars.

- A C++ CLI tool for Unix status bars that locally computes a full year of prayer times using the PrayTimes algorithm, displays Hijri dates, and triggers adhan notifications.

 **GoMeet** | *Go | daemon* 2024 – Present

Calendar-driven meeting launcher for Windows, macOS, and Linux.

- Built a cross-platform Go daemon that reads local and Google Calendar events, extracts meeting URLs from event locations, and auto-launches scheduled meetings.

EDUCATION

 **Faculty of Engineering, Al-Azhar University** Cairo, Egypt

Bachelor of Science (BSc) in Computers and Systems Engineering.

Sep. 2017 – Aug. 2022

EXTRACURRICULAR ACTIVITIES

- Finalist at ACPC 2020 (Africa & Arab Collegiate Programming Championship).
- Contributed bug fixes to open-source projects including NewPipe, CP-Algorithms, and BeefProject.