Abdeltwab M. Fakhry

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EXPERIENCE

💼 Atomica AI | *Full-time | Remote*   Giza, Egypt
Software Engineer III   *Nov. 2022 − Present*

- Overhauled DICOM segmentation app in a 2-person team — adopting msgpack, WebSocket, and Qt architecture; rewrote algorithms achieving 2x+ performance improvements — becoming the baseline for 4 apps.
- Introduced features — internationalization, feature flags, backup system, and reusable UI components — later adopted across 5 apps.
- Self-taught Flutter and FFI to integrate Dart with a C++ DLL backend, delivering the Carestream converter UI/UX.

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.

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

Decentralized cloud storage with end-to-end encryption.

- Decentralized file storage on Ethereum built with Next.js and Solidity; applies client-side encryption, chunks and distributes files across IPFS, stores root hash in blockchain wallet, and reconstructs on retrieval.

🕌 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).
- Fixed issues across open-source codebases including NewPipe, CP-Algorithms, and BeefProject.