


Abdeltwab M. Fakhry

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EXPERIENCE


 **Atomica AI** | *AI-powered dental imaging solutions* | *Full-time* | *Remote*
Software Engineer III


Atlanta, GA
November 2022 – Present

- Overhauled DICOM segmentation app adopting msgpack and WebSocket protocols in a 2-person team
- Rewrote and optimized algorithms, polished UI/UX, establishing baseline for 4 subsequent apps
- Implemented i18n, feature flags, backup system, and reusable UI components adopted across 5 products
- Self-taught Flutter and FFI to deliver Carestream converter integrating Dart with C++ DLL backend

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*

January 2023 – Present

Location-based reminder app for Android.

- Built location-based reminder system with custom geofences and audible arrival alerts
- Implemented offline functionality using OpenStreetMap with real-time location tracking

 **Devault** | *Next.js* - *Solidity* - *IPFS* - *Hardhat* - *Docker* | *dApp*

April 2022 – July 2022

Decentralized cloud storage with end-to-end encryption.

- Built decentralized file storage on Ethereum using Next.js and Solidity smart contracts
- Implemented client-side encryption with chunked IPFS distribution and blockchain hash storage

 **Next Prayer** | *C++* - *CMake* | *CLI*

September 2021 – Present

Islamic prayer times and Hijri date for Unix status bars.

- Built C++ CLI tool that computes full year of prayer times using PrayTimes algorithm
- Implemented Hijri date display and automated adhan notifications with configurable location settings

 **GoMeet** | *Go* | *daemon*

March 2024 – Present

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

- Built cross-platform Go daemon that parses local config file or Google Calendar for scheduled meetings
- Automated meeting launches by extracting and opening URLs from calendar events

EDUCATION

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

Cairo, Egypt

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

September 2017 – August 2022

EXTRACURRICULAR ACTIVITIES

- Finalist at ACPC 2020 (Africa & Arab Collegiate Programming Championship).
- Taught algorithmic problem-solving and authored problems for competitive programming contests.
- Fixed issues across open-source codebases including NewPipe, CP-Algorithms, and BeefProject.