

Ismail Raqi

Software Engineer · Rabat, Morocco

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Software engineer with hands-on experience across mobile, augmented reality, and backend systems. I design application architecture, lead small engineering teams, and ship reliable, maintainable products from prototype to release.

EXPERIENCE

Brokerage & REIM · Location-based AR real estate platform · Morocco Sep 2022 – Aug 2026

CTO & Lead Developer Nov 2023 – Aug 2026

- Owned the platform's architecture and technical direction, defining how mobile, AR, and backend components communicate.
- Led development of mobile, location-based AR, and backend integrations; set engineering priorities and roadmap.
- Resolved cross-platform iOS and Android reliability issues; managed native builds and tester release pipelines.

Mobile Engineer Sep 2022 – Nov 2023

- Built Flutter features and third-party integrations; diagnosed and fixed platform-specific and performance issues.

Freelance Software Engineer Jan 2025 – Jan 2026

Network Reliability Analyzer · Python, NetworkX Sep 2025 – Jan 2026

- Built reliability block diagram (RBD) databases for curative congestion management models (SPM-SPS, MPM-C).
- Implemented dynamic routing, OSPF connectivity analysis, and Koch's calculations across all outage scenarios in both models.
- Produced RBD visualizations and average-availability plots comparing static and OSPF routing.

Media Processing Service · FastAPI, Celery, Redis, S3 Jan 2025 – Sep 2025

- Built a service to download media, convert audio, and extract metadata through a REST API.
- Added background job processing, cloud file storage, and caching to reuse previously processed files.
- Delivered live status updates over WebSockets, time-limited download links, and service health checks.

TECHNICAL SKILLS

Languages	Python, Dart, C#, SQL	Data & storage	SQLite, Redis, Hive, Amazon S3
Frameworks	Flutter, FastAPI, NetworkX	Jobs & APIs	Celery, REST APIs, WebSockets
Engines & AR	Unity, ARCore	Tools	Git, Docker, Sentry

EDUCATION & LANGUAGES

1337 Coding School (42 Network) · Software Engineering Program · Khouribga, Morocco Nov 2021 – Sep 2022

Languages: Arabic (native) · English, French (professional working proficiency)