

ABDALLAH ABD-EL-FATTAH

Senior Software Engineer | Full-Stack & Data Engineering

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PROFESSIONAL SUMMARY

Software Engineer with 8+ years building scalable systems across full-stack web, mobile, and data engineering. Track record of end-to-end ownership, from architecture through deployment, with measurable impact: 96% cost reduction through platform optimization, 75% faster development cycles via reusable frameworks, and zero-downtime migrations of production data pipelines. Experienced in designing systems that enable team autonomy and eliminate cross-team dependencies.

TECHNICAL SKILLS

Languages: Java 17, Python, Kotlin, JavaScript, TypeScript, SQL, Rego (OPA)

Backend: Spring Boot, Django, REST APIs, Snowflake, DynamoDB, PostgreSQL

Frontend: React, Context API, MUI, Looker (Embedded Analytics)

Infrastructure: Terraform, AWS, Datadog, Docker, CI/CD, GitHub Actions

Architecture: Clean Architecture, Micro-Frontend, Event-Driven, Single-Table NoSQL Design

Patterns: Factory, Facade, Repository, Template Method, Strategy, Provider

Testing: JUnit, pytest, Testcontainers, REST Assured, Unit/Integration/E2E

WORK EXPERIENCE

Senior Full Stack Engineer | c3s Software (Confidential Client)

Aug 2024 - Present | Remote

- Designed version-aware Facade architecture enabling 5+ micro-apps to use different MUI versions simultaneously; eliminated cross-team blocking and unified 20 dashboards under single library system
- Built Snowflake ETL test harness reducing vendor integration time by 75% (2+ weeks to 2-3 days); framework used for 5+ vendor integrations with zero production impact
- Migrated 13 Terraform repositories from pre-stable Snowflake provider (v0.37) to stable release (v2.4.0) with zero downtime across 10+ GB/day data pipelines; eliminated 2-year technical debt
- Reduced Datadog monitoring costs by 96% (\$5/day to \$0.20/day) through query optimization; replaced legacy monitoring with real-time alerts (2-hour vs next-day notification)
- Built HubTrack authorization API using DynamoDB single-table design with <50ms latency; integrated with OPA for gateway-level RBAC across entire organization
- Designed Looker event interception system enabling modal-based drill-downs; eliminated 200+ lines of duplicate code and improved analytics UX

Engineering Manager | Dubizzle Egypt

Jun 2022 - Aug 2024 | Remote

- Led Pro-Agency Portal development achieving 85% adoption in 3 months; enabled agencies to manage 1,000+ ad inventories with distributed agent quotas across Egypt and Lebanon markets
- Designed automated telesales system reducing package application time from 1 day to instant; integrated payment gateway webhooks for zero-human-interaction flow
- Built real-time drop-offs system reducing telesales contact time from 1 hour to 5-15 minutes; improved conversion by reaching users while still engaged
- Reported directly to country manager; created product roadmaps impacting Egypt, Lebanon, Oman, Bahrain markets
- Established communication lines with Sector Labs engineering leadership to unify cross-market efforts

Senior Android Engineer | Dubizzle Egypt

Oct 2020 - Jun 2022 | Cairo/Remote

- Contributed to OLX Arabia app (10M+ installs); delivered Pay-and-Ship feature within 1 week of joining despite complex legacy codebase
- Designed cross-platform analytics module adopted across Backend, Frontend, Android, iOS; presented to and approved by head of engineering
- Implemented CI/CD reducing release time from 20 min to 2 min with zero human interaction
- Built analytics logging layer reducing event testing time from 4-5 minutes to instant
- Led Pay-and-Ship release coordination across multiple teams; coached junior engineers via pair programming

Software Engineer II | Amazon

Jun 2020 - Aug 2020 | Remote, Spain

- Full-stack engineer in Amazon Business organization working on large-scale international projects
- Participated in complete software lifecycle in Agile environment

Senior Android Engineer | The D. GmbH

May 2018 - May 2020 | Cairo

- Led CUJU app development: reduced APK size by 50%, improved crash-free sessions from 57% to 90% in 6 months
- Rebuilt app from scratch using Clean Architecture with multi-module design; achieved 100% unit test coverage (non-UI)
- Built white-label event apps (BYF, The Good Summit) with reusable architecture enabling rapid multi-event deployment
- Collaborated with cross-functional international team; recruited and trained junior engineers

Solutions Engineer | Vision Valley

Jan 2016 - Apr 2018 | Cairo

- Built Letuno platform (Android) for location-based content using VLC technology; showcased at GITEX 2016/2017, won SAP Innovation Awards 2019
- Designed indoor navigation algorithm (all-pairs shortest path) on backend; collaborated on API design
- Created cross-platform apps using Cordova/Angular for GPASSA (UAE government) and currency tracking during Egypt's 2016 flotation

EDUCATION

Bachelor of Science in Computer Science | Ain Shams University, Cairo | Class of 2015