

ANDREW AYMAN ALFY

Senior Software Engineer | Full-Stack Developer

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PROFESSIONAL SUMMARY

Senior Software Engineer with 4+ years building enterprise-scale web and mobile applications across real-estate, life-sciences, and SaaS domains. Specialized in Next.js, React, React Native, Node.js, and GraphQL with proven impact: 10K+ active users, 60% faster APIs, 99.9% uptime. Skilled at delivering production systems end-to-end — from PostgreSQL schemas and Redis caching to CI/CD pipelines and cross-team Agile delivery.

WORK EXPERIENCE

Senior Software Engineer — Emaar Properties · Dubai, UAE

04/2025 – Present

- Led full-stack development of the **Address Hotels** and **Armani Hotels** websites — flagship consumer portals for Emaar Hospitality Group's luxury brands — owning the project end-to-end from architecture and implementation to direct business-stakeholder coordination.
- Led the **Emaar Entertainment Group** website as **Senior Developer**, translating business requirements into engineering tasks, coordinating delivery across the dev team, and gating all releases through code review and QA before go-live.
- Architected and shipped **5 enterprise full-stack applications** for Emaar's hospitality and real-estate divisions using **Next.js (App Router), TypeScript, React, and GraphQL**, serving **10,000+ internal users** across Hotels, Communities, and Construction teams.
- Built cross-platform **React Native** mobile apps powering field operations — inspections, invoice tracking, and Permit-to-Work workflows — improving on-site efficiency by **45%** with offline-first sync and real-time data capture.
- Designed **GraphQL APIs** backed by tuned **PostgreSQL** and **MySQL** queries, cutting data-fetch latency by **60%** and unifying integration between **Strapi CMS**, internal microservices, and frontend clients.
- Led a focused **2-engineer team** with full delivery ownership and direct stakeholder alignment; consistently shipped **20% ahead of sprint commitments** with **>85% test coverage**.

Full-Stack Developer (Contract) — Veeva Systems · London, UK (Remote)

10/2024 – 04/2025

- Contributed to **Veeva Network / OpenData** — a global **Healthcare Professional (HCP) data platform** consolidating physician profiles worldwide (specialties, credentials, affiliations, and current/historical work locations) used by pharma companies for compliant outreach, territory planning, and clinical-trial recruitment.
- Engineered solutions on **Veeva Vault** — Veeva's regulated content-management platform — building document-workflow features, automating audit-ready record handling, and supporting compliance with **FDA 21 CFR Part 11** electronic-records regulations.
- Designed and implemented **RESTful APIs and microservices** integrating Veeva Vault and the HCP data platform with pharmaceutical CRM and clinical-trial systems, reducing data-processing time by **65%** for **500+ pharmaceutical clients**.
- Optimized **PostgreSQL** queries and introduced **Redis** caching layers, boosting application throughput by **40%** for a user base of **10,000+ life-sciences professionals** with **99.9% uptime**.
- Collaborated across **3 time zones** in a distributed Agile team, delivering **20+ feature releases** with **zero critical production incidents**.

Database Engineer (Contract) — ABGA Systems & Software · Dubai, UAE (Remote)

02/2024 – 10/2024

- Built and maintained database infrastructure for ABGA's enterprise product suite, including the **Cross-Region Data Management System (CRDMS)** — a platform consolidating geographically distributed data sources from multiple regional offices into a single, queryable layer.
- Designed **MySQL** and **MongoDB** schemas powering ABGA's **Training Management, Product Tracking, and Sales Force Monitor** platforms — modelling for multi-tenant isolation, multi-region replication, and audit traceability.
- Tuned slow queries, added missing indexes, and eliminated **N+1 access patterns** across reporting and admin dashboards — turning timed-out workflows into ones that loaded in real time.
- Set up automated **backup, replication, and Prometheus-driven monitoring** with alerting so data issues surfaced before customers reported them; partnered with backend developers to align schemas with new feature requirements across **healthcare, e-commerce, and education** clients.

Full-Stack Developer — Media Pan Arab FZE · Cairo, Egypt

05/2022 – 11/2022

- Designed and built full-stack web applications using **React** (frontend) and **Node.js / Express** (backend), delivering production features for media and marketing clients.
- Deployed services to **AWS** and **Heroku** with automated **CI/CD pipelines** (GitHub Actions), cutting average deployment time by **~50%** and improving release reliability.
- Authored and executed **unit and integration test suites**, raising code coverage and reducing regression bugs across release cycles.
- Collaborated with designers and product owners in an Agile workflow to translate UX wireframes into responsive, production-ready interfaces.

PROJECTS

AR Restaurant Menu Platform — *Freelance* · 2020 – Present

- Built an interactive **Augmented Reality menu system** using **Unity, ARKit, ARCore, and QR-code triggers**, allowing diners to scan a code and view 3D models of dishes in real-world space.
- Delivered to multiple restaurant clients across the **MENA region**, increasing menu engagement and providing a differentiated marketing channel for F&B operators.

Personal Portfolio — andrewelalfy.com

- Designed and developed a modern, animated personal portfolio in **Next.js, TypeScript, and Tailwind CSS** with smooth-scroll animations, dynamic routing, and optimized Core Web Vitals.

EDUCATION

B.Sc. in Computer Science Engineering — German University in Cairo (GUC)

09/2016 – 07/2021

- Grade: **1.6 / 5.0** (German grading scale — 0.7 is the highest mark; equivalent to **Very Good (near Excellent)**)
- Completed **Pre-Masters Track** at GUC.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, Java, C#, C, C++
- **Frontend:** React, React Native, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Responsive Design
- **Backend:** Node.js, Express, Java Spring Boot, GraphQL, REST APIs, Microservices
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **DevOps & Cloud:** AWS, Heroku, Docker, Git, GitHub, GitHub Actions, CircleCI, Ansible, Prometheus, CI/CD
- **Tools & Concepts:** Unity, ARKit, ARCore, Strapi CMS, Agile/Scrum, Performance Optimization, Test Planning

LANGUAGES

Arabic (Native) · English (Bilingual Proficiency) · German (B1)