Zeyad Zahran

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Education

B.Sc. in Computer Science - Zagazig University, Egypt Oct. 2023 – Expected Jun. 2027

Experience

Full-Stack Software Engineer (Freelance, Remote) Jul. 2026 – Oct. 2026

Laky – women-only ride-hailing app | NestJS, PostgreSQL/PostGIS, Redis *Jul. 2026 – Sep. 2026*

- Owned the backend and frontend: the API, a realtime service for drivers and riders, a worker, the ops dashboard.
- Owned dispatch: offers go out in waves to the nearest drivers and an atomic accept-lock lets exactly one win a trip; built the double-entry ledger for driver earnings.
- Ran deployment end to end – Docker, GitHub Actions CI/CD, and automated releases to the server behind Nginx.

Mapella – online store for a cosmetics brand | Next.js, TypeScript, PostgreSQL *Aug. 2026 – Oct. 2026*

- Built and launched the brand's store alone, end to end: orders paid by InstaPay or mobile wallet and checked by an admin against private payment proofs, and an admin panel for stock, discounts and shipping – 180 tests.
- Protected accounts from takeover and password guessing (one answer for every failed login, rate limits per email and per IP kept in the database), and set up nightly encrypted backups, verified by restoring the live data.

Founding Software Engineer Oct. 2025 – Present

Tiryak – helps people find the nearest pharmacy that has their medicine | NestJS, Electron, React, Redis

- Lead a team of 5 (backend, desktop, mobile, AI); built the search backend and the offline-first desktop app.
- Stock never leaves the pharmacy: a search asks the 8 nearest connected pharmacies over their sockets, widening only if fewer than 5 say yes; answers stream back and are never stored.
- Enforced it in CI: a test parses every shipped file with the TypeScript compiler and fails on any network call.
- **3rd Place**, MCIT Creativa Hackathon (Oct. 2025); **2nd Place**, Banha University Hackathon (Feb. 2026).

Open Source Contributor Feb. 2026 – Jul. 2026

RADIS – Python library for high-resolution infrared molecular spectra

- Merged 13+ PRs across performance, testing, and CI – including cutting library startup from 2.17s to 1.02s (53%) by lazy-loading heavy dependencies #941.
- Added 31 tests to under-covered modules #987, replaced bare excepts with specific exceptions #949, caught non-physical temperatures reaching the Planck function #934, and repaired the broken coverage upload #960.

Projects

Magitsh | *Node.js, JavaScript, CLI* GitHub | npm

- Reimplemented Git from scratch: SHA-1 content-addressed objects, merge-base detection on the commit graph, and three-way merge with conflict detection – on npm as a CLI (init, commit, branch, merge, diff, log).

Technical Skills

Languages: C++, Python, TypeScript, JavaScript, SQL
Backend & Data: Node.js, NestJS, PostgreSQL/PostGIS, SQLite, Redis, BullMQ, WebSockets (Socket.IO), Prisma
Frontend: React, Next.js, Electron
Tools & Platforms: Linux, Docker, GitHub Actions (CI/CD), Nginx, Git, Bash, Jest, pytest

Achievements & Leadership

Competitive Programming 2024 – 2026

- **Codeforces Expert** with **1000+ problems solved**; **ACPC 2025 Finalist** (Africa & Arab Collegiate Programming Contest), qualifying via the **ECPC'25 Finals** at **74th nationally**; **25th in Egypt** at **IEEE Xtreme 19.0** (onsite, ITI Port Said).

Community Leader & Mentor | *ICPC Zagazig Community* Oct. 2023 – Sep. 2026

- Led 4 training teams reaching **900+** students; taught algorithms and data structures and wrote contest problems.

IEEE Victoris 4.0 – **2nd Place** for Apple Seed, a complete 2D rogue-like platformer Sep. 2025