Abdallah El Belkasy

Software engineer, systems & backend · Rust, C++, Python

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Dubai, UAE (UTC+4) · Remote worldwide, or relocation with a visa · Egyptian national

2023 · SIEMENS EDA · E-JAM	2026 · POLYBALL · V0.10.8	2025 TO PRESENT · ODOO
One switch test cycle	Google Play closed testing	Enterprise Python and PostgreSQL
~~2 h+~~ → **~10 min**	**178 countries**	**100+ client projects**

Experience

Odoo PSAE, Software Engineer · Dubai — Apr 2025 to Present

- Python/PostgreSQL backend work on 100+ client projects: data models, business logic, performance fixes.
- Designed and built 5+ vertical modules now used by every client in their segments, cutting per-client customisation.
- Review partner code against Odoo standards and coach partner teams. Star of the Month, July 2026.

Mandatory national service · Egypt — Aug 2023 to Dec 2024

Siemens EDA, Software Engineer, graduation project · Cairo (remote) — Jan 2023 to Aug 2023

E-Jam, a distributed test bench running RFC 2544 and RFC 2889 benchmarks on network switches; open source (MIT). Team of five; top contributor, 256 commits · github.com/Abdaishere/E-Jam · walkthrough youtu.be/oPZLR4RM150

- Wrote Center Point, the Rust control plane on Actix Web: its REST API drives every stream, device and process through explicit state machines and publishes to Apache Kafka against a schema registry.
- Built the Flutter admin client that configures tests and charts results live.
- Team-built C++ packet generators and verifiers run per node in Docker; statistics stream back over Apache Kafka.
- **One switch test cycle went from 2 h+ to ~10 min**; 5+ manual test cases automated end to end with pass/fail.

Banque Misr, Android Developer Intern · Cairo — Jun 2022 to Aug 2022

- Kotlin/Java Android screens in MVVM; REST APIs for account and authentication; crash and performance fixes.

Projects

PolyBall, rhythm game; solo developer: design, code, audio, release — Godot 4 · GDScript · v0.10.8

- Google Play closed testing in 178 countries; 16 tagged releases from 23 Sep to 30 Oct 2026; itch.io, GameJolt and web: abdaishere.com/polyball/.
- Audio engine synthesises every note at runtime: 16 additive voices, colour mapped to chord degree, no music files.
- CI across six targets on GitHub Actions, driven by bots playing 24 runs per pass with deliberate mistakes; 15 locales, Arabic right-to-left layout covered by automated tests.
- Supabase (PostgreSQL) leaderboard: monthly cup, server-side anti-cheat (score ceilings, run-code checks), name filter, block and report.
- Browser boot cut from 9.2 s to 5.7 s with a trimmed 2D-only engine build; slow phones start on a lighter graphics tier.

Off the bed, 3D printing write-ups; parametric parts in CadQuery — Python · CadQuery · 2026

- Replacement parts as CadQuery scripts, a fit coupon before each full print, figures drawn from the real G-code: abdaishere.com/prints/.

Education

Cairo University, B.Sc. Computers and Artificial Intelligence — 2019 to 2023

GPA 3.5/4.0, Excellent with Honours, top 100 of 800+ · ICPC contestant (2021)

Skills

Languages: Rust, C++, Python, SQL, Java, Dart, GDScript, Kotlin
Systems: Apache Kafka, Docker, Linux, distributed test infrastructure
Backend: PostgreSQL (Supabase, pg_cron), Actix Web, Spring Boot, Django, Odoo ORM, REST APIs
Shipping: GitHub Actions, cross-platform CI, Playwright, Godot 4, Flutter, CadQuery
Spoken: Arabic (native), English (fluent)