

# Amr Bashir

*Fullstack Software Engineer*

*Passionate about customizing systems and exploring new technologies, continually seeking to innovate and expand my expertise.*



## Contact information

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- Location: [Tanta, Egypt](#)

## Work Experience

- erp-system (\_June 2025 - July 2025) - Fullstack freelancer
  - Implemented an erp-system to manage storage, invoices, customers and transactions for a local store in Egypt. Built in public and hosted on Deno Deploy.
  - Backend is built using tRPC for type-safe APIs and PostgreSQL through Prisma for type-safe database access.
  - Frontend is built in React with Vite, TanStack Router for type-safe routing, TanStack Query and tRPC for end-to-end type-safe API communication, and i18next for internationalization.
- Altera AI (Mar 2025 - May 2025) - Windows Developer Freelancer
  - Implemented various Windows features into a Tauri app, including interfacing with Microsoft Excel through COM APIs.
- CrabNebula (Nov 2022 - Nov 2024) - R&D Software Engineer:
  - Maintained the Tauri project as part of the R&D team ensuring robust performance and stability. Gaining a lot of knowledge about operating system APIs especially Windows, X11 and GTK.

- Worked on a scalable cloud platform using Rust (Axum & Rspc) and MongoDB in the backend and SolidJS in the frontend.
  - Implemented multiple endpoints with respective UI
  - Contributed to user management specifically permissions and capabilities using the Ory suite (kratos, hydra and keto).
- Freelancing POS mobile app (*Mar 2022 - Jun 2022*):
  - Developed a Flutter Point of Sale (POS) system/application with an admin dashboard for iOS and Android.
  - The system included local server, database and communication between different devices.

## Open-source Experience

- **Tauri** (*Since 2021*) - Core working-group member and maintainer. Tauri is a framework to build cross-platform application using web technologies.
- **Hijri Widget** - Android widget application for displaying The Hijri date.
- **kal** - Keyboard-driven app launcher and productivity tool for Windows.
- **komorebi-switcher** - A minimal workspace switcher for the Komorebi tiling window manager, seamlessly integrated into Windows 10/11 taskbar..
- **vite-plugin-tauri** - A Vite plugin to integrate Tauri in an existing Vite project to build cross-platform apps.
- **amrbashir.me** - My personal website using Astro.

## Skills

### **Programming Languages**

JavaScript/TypeScript, Rust, PowerShell, Bash, Kotlin, C/C++, Python, Dart

### **Back-end Technologies**

Node.js, Express.js, Prisma, Postgres, tRPC, NestJS, Axum, MongoDB, SQLite, Docker, Deno, GitHub Actions, Cloudflare Workers

### **Front-end Frameworks**

React, Vue.js, SolidJS, Astro

### **Desktop applications Technologies**

Tauri, Electron, Win32, GTK

### ***Mobile applications Technologies***

Kotlin and Jetpack Compose, Dart and Flutter

### ***Design Skills***

Figma, Adobe Photoshop, Adobe Illustrator, Inkscape

## **Education**

- Bachelor in English Literature (2016 - 2020)

Faculty of Languages and Translation, Al-Azhar University

## **Languages**

- Arabic (Native)
- English (Fluent)