

Amr Bashir

Fullstack Software Engineer

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



Contact information

- Website: <https://amrbashir.me>
- E-mail: contact@amrbashir.me
- Location: Tanta, Egypt

Work Experience

- erp-system (June 2025 - July 2025) - Fullstack Engineer - Freelance
 - 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.
- CrabNebula (Mar 2025 - Apr 2025) - Windows Software Engineer - Freelance
 - Implemented various Windows features into a Tauri app, including:
 - Interfacing with Microsoft Excel though COM APIs.
 - Integrate the app into the Windows OS to show as a sidebar for the whole OS (kinda like a second taskbar).
- 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 with 2K active users.
- 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)