# Abdulrahman Mohamed Saadawi

Senior Full Stack Engineer | Backend (Node.js, NestJS, Python, FastAPI, PostgreSQL) | Frontend (React, Next.js, TypeScript) | LLM and Agentic AI Engineer | Product Engineer

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## SUMMARY

Senior Full Stack Engineer with 3+ years shipping production APIs, web applications, internal platforms, and automation systems. Backend in Node.js, NestJS, Express, Python, FastAPI, and PostgreSQL, from schema design and REST API contracts through authentication, RBAC, Docker-based delivery, and production debugging; frontend in React, Next.js, and TypeScript. Currently a major contributor across six MENT'ECH products, including a multi-tenant booking platform, an automotive marketplace, and an internal operations platform, with full Arabic and RTL internationalization.

LLM and Agentic AI Engineer: built and operates a self-hosted AI-agent platform with a TypeScript runtime, FastAPI service, Python MCP sidecar, and persistent Claude and Codex sessions, with scheduled workflows, retries, health checks, audit traces, and automated test coverage. Product-minded engineer who owns work from architecture and database design through implementation, testing, deployment, and production debugging, and maintains open-source tools used by a wider community.

## TECHNICAL SKILLS

**Backend:** Node.js, NestJS, Express, Hono, TypeScript, Python, FastAPI, REST API Design, OpenAPI, WebSockets, JWT, OAuth 2.0, RBAC, Authentication and Authorization, Background Jobs and Scheduled Workflows, Service Integration, Laravel API integration, C#/.NET, Go

**Frontend:** React, Next.js (SSR, SSG, ISR), TypeScript, React Native, Expo, Vue.js, Tailwind CSS, shadcn/ui, Radix UI, MUI, TanStack Query, Table and Form, Zustand, Redux, Core Web Vitals, Accessibility, SEO, Arabic and RTL i18n

**Data and DevOps:** PostgreSQL, SQLite, MongoDB, MySQL, MSSQL, Prisma, Drizzle, Schema Design, Query Optimization, Docker, Docker Compose, Linux, GitHub Actions, GitLab CI/CD, Vercel, Ansible, Sentry, Vitest

**AI and LLM:** LLM API Integration (Anthropic Claude, OpenAI), AI Agents and Agentic Workflows, MCP Servers, Tool Calling, Persistent Agent Sessions, Scheduled Workflows, Retries and Health Checks, Audit Traces, AI-Assisted Development (Claude Code, Codex)

## EDUCATION

**New Cairo Academy** **Jan 2019 – May 2023**

*Bachelor's Degree in Management Information Systems*

**Russian Culture Center** **Jan 2022 – Jun 2022**

*Diploma in Web Development*

## EXPERIENCE

**MENT'ECH** **Sep 2025 – Present**

*Senior Full Stack Engineer* *Cairo, Egypt*

- Major contributor across six production products in one year, spanning customer, vendor, and admin applications, all with Arabic and RTL internationalization.
- Own API contracts with the Laravel and Node.js backend teams: define endpoints, payloads, and error semantics, and build NestJS and Node.js services and integrations where the products need them.
- Built the EDGE Innovation Center internal operations platform in Next.js with access-controlled screens, complex operational tables, reusable forms, and drag and drop workflows (Radix UI, TanStack, dnd-kit).
- Delivered booking workflows, reporting surfaces, dynamic filters, and reusable data tables for Alouf Travel, a multi-tenant booking platform integrated with a Laravel API.
- Shipped vehicle bidding, comparisons, price history, budgets, notifications, and Google Maps features for Real Deal, an automotive marketplace.
- Built trainee, trainer, and admin experiences for the HNI Training Institute e-learning platform, and responsive multilingual quotation journeys for IRC Insurance.
- Created reusable admin dashboard and website starters (Next.js, TanStack, Tailwind CSS, TipTap, Sentry) that cut the setup time for new products and standardized data fetching, tables, forms, and error monitoring.
- Review code, investigate production regressions, and support GitLab CI/CD and Docker-based delivery.

**Tap Platform** **Feb 2025 – Aug 2025**

*Software Engineer* *Remote*

- Built Tap, a digital business card platform for creating, customizing, and sharing professional profiles.
- Built Garlik, a community food-sharing product with responsive interfaces, live updates, and dynamic data fetching.

**Self-employed** **Jan 2024 – Jan 2025**

*Freelance Full-Stack Engineer* *Remote*

- Delivered client applications end to end, from requirements and architecture through frontend, REST APIs, PostgreSQL schema design, deployment, SEO, and performance.
- Built role-based access control, filterable data tables, multi-step forms with real-time validation, and drag and drop workflows for admin dashboards and booking systems.
- Improved application performance by profiling hot paths and removing unnecessary React re-renders; refactored core screens for responsiveness, accessibility, and predictable state.
- Built the Fyre Virtual marketing site in Next.js with technical SEO and Core Web Vitals as the acceptance criteria.

## PROJECTS

**Clawbot Stack - Self-Hosted AI Agent Platform**

TypeScript, Node.js, Next.js, FastAPI, Python, SQLite, MCP, Vitest, Docker, Ansible

- Built and operate an automation and AI-agent platform with a TypeScript runtime, FastAPI service, Next.js dashboard, Python MCP sidecar, and persistent Claude and Codex sessions; scheduled workflows, retries, health checks, audit traces, shared state contracts, and Vitest coverage, deployed with Docker and Ansible on Hetzner.

**Soundcore Control** github.com/d7omdev/soundcore-control

Rust, egui, BlueZ, SQLite, Linux

- Native Linux controller for Soundcore audio devices: BlueZ communication, battery reporting, ambient modes, equalizer, system tray, and AppImage distribution.

**Clipse GUI** github.com/d7omdev/clipse-gui

Python, GTK, Linux

- Graphical interface for the Clipse clipboard manager, 77 GitHub stars.

**Save Image as Type**
JavaScript, WebExtensions API

- Firefox extension adding PNG, JPG, and WebP export to the image context menu.

## CERTIFICATIONS

**EF SET English Certificate, C2 Proficient** **Jul 2024 – Present**

## LANGUAGES

**Arabic (Native)**

**English (C2 Proficient)**