

Hassan Salah El Akshar

Software Engineer | Full-Stack, Real-Time Systems & DevOps

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github.com/HassanSalah120 | devpair.dev

Open to remote roles | Military status: Completed

EXPERIENCE

DevPair

Jul 2023 - Present

Co-founder / Full-Stack & Real-Time Systems Engineer | Giza, Egypt / Remote

Selected work: Schmobin show systems

Nov 2024 - Present

Lead Full Stack & Real-Time Systems Engineer | Germany / Remote

Schmobin creates and hosts the quiz shows. DevPair provides the software engineering and DevOps.

- Develop PHP and Go services with WebSockets connecting contestants, host controls, audience participation, and broadcast overlays.
- Developed audience-response systems for documented broadcast events reporting 30,000+ active users and 500,000+ submissions across events.
- Implemented transactional game-state handling for competing player actions, keeping buzzer outcomes consistent during live rounds.
- Own deployment and operation of the supporting Linux services, including monitoring, service maintenance, and recovery workflows.

Show landing page | YouTube broadcasts | Live voting app

SELECTED ENGINEERING PROJECTS

ClinBeam

Website

- Built a Laravel/MySQL multi-tenant clinic platform with React/TypeScript, including Arabic RTL workflows and five-surface dental charting.
- Integrated clinical and operational MCP tools with review and confirmation interfaces for AI-generated proposals.

Punch - Pre-launch

Project

- Separated WebSocket gateways from authoritative Go session workers using NATS JetStream, so session state outlives individual client connections.
- Implemented PostgreSQL-backed session persistence and Flutter reconnect flows, with ownership controls to reject stale writes during failover.

Relay Studio

GitHub

- Implemented Laravel Reverb/WebSocket board updates for a React/TypeScript workspace, plus MCP tools with scoped token permissions and agent activity logs.

LaraDeck

GitHub

- Built a Go/Wails desktop workbench with React/TypeScript panels for HTTP request activity, queue jobs, and database schema inspection.
- Implemented an MCP server exposing Laravel inspection tools to coding assistants, gated by explicit project trust.

TECHNICAL SKILLS

Languages: Go, PHP, TypeScript, JavaScript, Python, Dart, SQL, Bash

Frameworks & runtime: Laravel, React, Next.js, Node.js, Flutter, Wails

Systems & delivery: WebSockets, NATS, Redis, PostgreSQL, MySQL / MariaDB, Linux, Docker, Nginx, Git

AI integrations: MCP servers, scoped agent tools, human review and confirmation workflows

EDUCATION

October 6 University

2019 - 2023

B.Sc. Computer Science | Giza, Egypt

Engineering work listed above is shared DevPair work, co-owned by both engineers.