



FULL-STACK & SYSTEMS ENGINEER

HASSAN AHMED

AI Platforms · Real-Time Systems · Game Servers
· 32+ Open-Source Repos

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LOCATION Egypt · Remote / Contract

SUMMARY

Full-stack and systems engineer who ships products end to end — from raw TCP sockets and custom cryptography to React/SolidJS dashboards and AI pipelines. Built a **multi-agent AI orchestration platform** and a complete **MMO game-server ecosystem** (~325K lines), plus **multi-tenant SaaS platforms** serving web, mobile and API from one backend, and cross-platform desktop and mobile apps. Maintains **32 open-source projects** spanning C, C#, Python, Dart, TypeScript, React, and C++. Strong on backend architecture, tenant isolation, payment settlement, real-time networking, security, and AI integration. Bilingual EN/AR (RTL).

CORE SKILLS

LANGUAGES	TypeScript · C# · Python · Dart · PHP · C · C++ · JavaScript · SQL	FRONTEND	SolidJS · Next.js / React · Tailwind · Vite · PWA · Electron
MOBILE & DESKTOP	Flutter · PyQt6 · Electron · cross-platform · bilingual RTL	BACKEND	NestJS · FastAPI · Django · .NET · Hono · Node.js · REST · SSE / WebSockets
DATABASES	PostgreSQL · Prisma · MongoDB · MySQL · Redis · Drizzle · aggregation & indexing	REAL-TIME & NET	TCP/UDP sockets · Socket.IO · LiveKit / WebRTC · packet protocols · thread pools · game loops
SECURITY & CRYPTO	AES-GCM · JWT/argon2 · Diffie-Hellman · CAST-5 · HWID anti-cheat	AI INTEGRATION	Claude / Anthropic · multi-agent orchestration · fal.ai · token metering
PAYMENTS & BILLING	Stripe (subs · escrow) · PayPal · Paymob · Fawry · mobile wallets & InstaPay · idempotent webhooks · quotas & refunds	DEVOPS & CLOUD	Docker · GitHub Actions · Vercel · Cloudflare · Railway · Nginx

01 VETOCORE — Multi-Agent AI Orchestration Platform

ARCHITECT & FULL-STACK

vetoai-frontend.vercel.app · SolidJS · Electron · Hono · MongoDB · TypeScript · JWT/AES-GCM · SSE · PWA

- Built an authenticated **LLM proxy** streaming Groq/OpenRouter/Gemini over SSE, **metering every token** into per-user usage & quotas; web, Windows desktop, and installable PWA on one account.
- JWT auth (argon2), **AES-256-GCM** encrypted provider keys, role-based **user + admin dashboards**, in-browser live preview with QA-rollback guardrail, and unit-tested core.

02 ALL DEADLY WORLD — MMO Game-Server Ecosystem

SYSTEMS ENGINEER · C# / .NET · C/C++ · PHP · WPF

deadlyworld.online · C# / .NET · WPF · C/C++ · TCP Sockets · Cryptography · Anti-Cheat · PHP · MySQL

- End-to-end classic Conquer Online **6609** stack (~325K LOC): bilingual PHP portal (store, VIP 7, vote, forgot-password **email OTP**), WPF launcher (patches / self-update / DX8-DX9), C# account + multi-region game servers, native **DeadlyWorld.dll** loader + Loader Hub, CQ **.dat** crypto tools, and a full Windows client file editor.
- Real-time **TCP** world (~5818) + auth (~9960) with custom crypto (DH / CAST-5 lineage); 450+ game classes, 150+ packets, map-threaded simulation; events (Guild War, Elite PK, LMS, world bosses).
- **Offline AutoHunt** (farms after logout, earns CPs, persists across restarts) · in-game **Chat[AI]** whisper assistant · living-world hunt bots + town sitters (GM Bot Control) · **offline shop bots** (Playerbot Booth) · offline training quota.
- **Protection:** HWID bind/ban, spoof detection, device-slot licensing, integrity checks, Discord alerts; Loader Hub Royal Pass, recharge/Charge Points, invite/referral — no third-party product name.

03 KRYPTONEX — AI Startup Builder, SaaS Platform

FOUNDER & FULL-STACK

frontend-phi-ivory-65.vercel.app · Next.js 14 · TypeScript · Tailwind CSS · Zustand · Framer Motion · RTL i18n · Vercel

- Multi-tenant SaaS platform that turns a single prompt into a launched startup — AI-generated websites, mobile apps, ad campaigns, and marketing media.
- Token-metered billing with per-plan usage quotas, a project/domains/hosted-sites dashboard, and a custom dark UI design system with 3D-depth cards and animated motion; fully bilingual EN/AR (RTL).

04 MAZAG — Multi-Tenant Food Delivery Platform

ARCHITECT & FULL-STACK · DJANGO

mazag-production.up.railway.app · Django 5 · DRF · django-tenants · PostGIS · Celery · Redis · Keycloak/OIDC · Channels

- Schema-per-franchise multi-tenant platform connecting restaurants, home cooks, street vendors, drivers, and customers, with a shared Keycloak realm for SSO across web and admin.
- PostGIS-backed geolocation for orders/delivery zones, Celery+Redis async tasks, wallets and Paymob payments, promotions, subscriptions, live chat, and a role-based Django Unfold admin (platform/franchise/driver/business dashboards).

05 BORHAN — Multi-Tenant Learning OS (Web, Mobile & API)

ARCHITECT & FULL-STACK · NESTJS, NEXT.JS & FLUTTER

[borhan-phi.vercel.app](#) · NestJS · Next.js 16 · Flutter · PostgreSQL/Prisma · Socket.IO · LiveKit · S3/R2 · Paymob · Fawry

- Three clients on one API (Next.js portal, Flutter app, REST/WS backend) covering QR attendance, groups & timetabling, protected video courses, auto-graded assessments, live classes, billing and wallets — for schools, academies and independent teachers.
- Tenant isolation enforced at every database query rather than in the UI, with cross-tenant reads answering *not found* instead of *forbidden* so a resource's existence is never disclosed; role-scoped access across admin, instructor, secretary, student and parent.
- Single settlement path for every payment rail — a conditional PENDING→COMPLETED transition makes concurrent webhooks, manual approvals and cash entries incapable of double-fulfilling an enrolment; Egyptian mobile-wallet and InstaPay transfers settle through human review with tenant-bound receipts and a recorded reviewer.
- Lesson video delivered over HMAC-signed, viewer-bound URLs expiring in minutes, with magic-byte verification on upload; argon2id credentials and single-use, hash-stored reset tokens.
- Bilingual English/Arabic with RTL across web and mobile, the Arabic catalogue type-checked against English so an untranslated key fails the build rather than reaching a user.

APPLICATIONS

06 EDU — EDUCATIONAL MEDIA VIEWER — Desktop & Mobile

SOLO · PYTHON & FLUTTER

[github.com/MrHassan2027/EDU](#) · PyQt6 · Flutter / Dart · Syncfusion · video_player

- **EDU (desktop, PyQt6)** — media viewer for educators & live-streamers: images, video, PDF, in-app web browser, drawing overlay, stream queue, session restore; bilingual EN/AR (RTL). Shipped Windows release.
- **EDU-Android (Flutter / Dart)** — mobile port with PDF, video, web view, drawing toolbar, persistence, and full RTL Arabic localization.

OPEN SOURCE — GITHUB.COM/MRHASSAN2027

32 public repositories · each with a working build and a clean README

C# / .NET

- PacketSniffer.NET** — Raw socket capture + WinForms live protocol decoder
- MiniORM** — Attribute-based ORM for SQLite/SQL Server, no EF
- HotReloadConfig** — Hot-reloads appsettings.json without restart
- PluginHost** — AssemblyLoadContext plugin system with hot-reload
- TerminalUI.NET** — TUI framework via ANSI escape codes
- GameServerKit** — Reusable TCP game server framework

C / C++

- TinyHTTP** — HTTP/1.1 server in pure C, zero dependencies
- MemWatch** — LD_PRELOAD heap tracker with flamegraph output
- CLIParser** — Single-header C++17 argument parser library

DART / FLUTTER & SECURITY

- EDU-Android** — Flutter mobile media viewer (PDF, video, web, RTL)
- PortMapper** — Async port scanner with service fingerprinting
- JWTForge** — Decode, forge, and audit JWTs (pentest/CTF)

PYTHON

- GitDigest** — Grouped CHANGELOG from Conventional Commits
- PriceMatcher** — Async price tracker with Discord/email alerts
- SQLProfiler** — SQLAlchemy: slow queries + N+1 detection
- DocForge** — Markdown docs from Python source via AST
- FaceAttend** — Face-recognition attendance logger (OpenCV)
- ShellSage** — AI shell history analyzer via Claude API
- EDU** — PyQt6 media viewer for educators (images, video, PDF)
- DungeonTerm** — Roguelike dungeon crawler in the terminal
- TweetMood** — Sentiment pipeline: DistilBERT + Streamlit
- CSVInsight** — CSV → stats + correlation heatmap report

TYPESCRIPT / REACT / NEXT.JS

- LogLens** — DevTools-style JSON log viewer: filter, search
- SnapDeploy** — Node CLI: zip → SFTP → deploy in one command
- FormForge** — Drag-drop form builder → standalone HTML export
- Webhookr** — Self-hosted webhook inspector with replay
- MDBoard** — Kanban board where cards are Markdown files
- APIBlueprint** — VS Code: OpenAPI YAML → TypeScript client
- ResumeJSON** — JSON resume → styled printable page
- CodeDuel** — Dual Monaco editor with diff mode + timer
- ColorSystem** — Base color → OKLCH palette + CSS vars
- MarkdownPress** — Static Next.js blog from Markdown files

MORE

STRENGTHS

- End-to-end ownership
- Real-time & networking
- Security & cryptography
- AI integration
- Payments & billing
- Open-source contributor
- Clean, fast UX

LANGUAGES

- Arabic – native
- English – professional