

Hassan Al Awad

Full-Stack / Backend Engineer

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SUMMARY

Full-stack engineer with 3+ years owning production from idea to deploy. I build secure, real-time web platforms and ship them on Linux/Docker stacks. Most comfortable in Python and Flask, happiest when the thing I built is actually running and handling real users.

TECHNICAL SKILLS

Backend: Python, Flask, Express, REST APIs, WebSockets, Celery, Gunicorn
Data: MySQL, Redis, SQLAlchemy, async connection pools
DevOps: Docker / Compose, Nginx, Linux, Git, CI/CD, Makefile
Security: Encryption at rest + key rotation, RBAC, JWT, 2FA, WAF, rate limiting, abuse prevention
Integrations: Stripe, OAuth, LLMs (Gemini, DeepSeek, OpenAI), Discord, Instagram Graph
Other: JavaScript / Node.js, HTML/CSS, Bash, Jinja2, PIL/Pillow, FFmpeg

EXPERIENCE

Founder & Lead Engineer - YouMatter Technologies Inc. (Apr 2025 - Present)

- Built YouMatter AI solo, end-to-end: encrypted chat, LLM responses (Gemini/DeepSeek), Stripe billing, real-time WebSocket admin panel.
- Wrote a custom WAF with rate limiting, bot detection, and payload validation - significantly reduced abuse and stabilized production traffic.
- Implemented encryption at rest (AES-256-GCM) with key rotation and access controls for all stored user data.
- Broke a 10,900-line monolith into 15+ Flask blueprints and containerized the full stack (Flask, MySQL, Redis) with Docker Compose.

Co-Founder & Platform Engineer - EDPWatch (Part-time, 2024 - Present)

- Co-built a trust & safety content platform - 40K peak active users, 22K+ members, seven-figure gross revenue (platform-level).
- Engineered the Flask backend: RBAC, JWT auth with token revocation, Celery workers for video processing, MySQL.
- Built case tracking, compliance-style audit logging, and role-based access controls across the platform.

Founder & Lead Developer - Krow Tech (2023 - Present)

- Built Krow, a Discord bot platform with 900+ commands across 13 categories (moderation, music, economy, AI, tickets, Last.fm) - live in 70 servers, 197K+ users.
- Runs on a multi-database backend (6 MySQL databases, Redis, SQLite) with async pools for economy, modlogs, analytics, and Last.fm indexing.
- Integrated multi-provider AI (OpenAI, Gemini, CharacterAI) for chat, image generation, and voice-to-text features.

Technical Operations - Creator Platforms (Contract, 2023 - Present)

- Own ops workflows (triage, escalation, tooling, process) for multiple large creator platforms - onboarding, growth, staffing, and day-to-day ops.
- Trusted with high-privilege access: admin tooling, social account workflows, and platform-level decisions.

SELECTED PROJECTS

YouMatter AI youmatterai.com

Python, Flask, MySQL, Redis, Docker, Gemini/DeepSeek, Stripe, WebSockets

- Encrypted AI chat with live admin support (whisper mode, typing preview, templates), community stories, and a mini-games engine.
- Multi-session chat with per-user memory, full admin dashboard with real-time stats, mood tracking, bot commands, auto-summary, and CSV exports.

FighterFantasyGame fighterfantasygame.com

Python, Flask, MySQL, Gunicorn

- MMA fantasy platform with leagues, invite codes, commissioner roles, and live draft rooms with real-time state syncing.
- Scoring engine with season rankings, plus an API layer with dynamic query building and in-process caching.

LeagueAlerts leaguealerts.ca

Node.js, Express, Instagram Graph API, PWA

- Sports media site aggregating Instagram analytics across providers with caching, fallback logic, and a brand-partnership contact flow.

EDUCATION

McGill University - Certificate in Applied Cybersecurity

2024

McGill University - Certificate in Computers & Information Technology

2023

LANGUAGES

English - Full professional proficiency (written and spoken)