KÜRŞAT YILMAZ

Full-Stack & AI Systems Architect | Application Security & Distributed Systems

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EXECUTIVE SUMMARY

Systems-focused Full-Stack & AI Architect with 10+ years of hands-on software development experience designing, securing, and scaling production-grade web, mobile, and autonomous AI platforms. Proven track record across high-assurance cybersecurity and intelligence workflows, multi-tenant B2B SaaS architectures (PostgreSQL RLS), deterministic LLM orchestration, and high-concurrency national platforms. Experienced in leading cross-functional engineering teams from system design and penetration testing through to large-scale commercial and civic deployments, backed by an archive of 100+ end-to-end software repositories.

PROFESSIONAL EXPERIENCE

Founder & Lead Systems Architect — İtibar (itibar.app · BTM Venture) — **Active Venture | Istanbul, Türkiye**

- Architecting an enterprise B2B reputation defense and legal compliance platform incubated at **BTM (Bilgiyi Ticarileştirme Merkezi)**, automating statutory violation analysis across **24+ legal classes (TCK/TTK)** through a **100% deterministic rule engine** and multi-region data pipelines.
- Engineered automated digital evidence collection, AI/GEO schema auditing, and Headless Chrome legal PDF report compilation on Next.js, TypeScript, Python, PostgreSQL, and Vercel Serverless infrastructure.

Software & Cybersecurity Engineer — Korkut Technologies (korkuttech.com) — **Istanbul, Türkiye**

- Worked under the technical leadership and mentorship of **İlhan Göktaş** (M.Sc. Computer Science, UC Berkeley) on high-assurance software architectures, offensive and defensive cybersecurity research, digital forensics infrastructure, and AI-integrated security systems.
- Engineered zero-trust system designs, threat modeling, tamper-evident cryptographic data integrity workflows, and resilient backend services for mission-critical security and legal-tech platforms.

Lead Software & Security Systems Engineer — BMI Law Firm — **Türkiye, Azerbaijan & Northern Cyprus**

- Led the architecture and end-to-end delivery of proprietary intelligence (OSINT) and investigative data analysis systems, enterprise web/mobile applications, and B2B commercial platforms supporting cross-border legal and commercial operations across **Türkiye, Azerbaijan, and Northern Cyprus**.
- Conducted offensive application security assessments, vulnerability analysis, and penetration-testing hardening across web, mobile, and API infrastructures; eliminated IDOR/SSRF/injection vectors, enforced cryptographic rate-limiting, OWASP Top 10 mitigations, and strict multi-tenant PostgreSQL Row-Level Security (RLS) isolation.
- Architected **Gideon AI** (stateful Generative UI legal intake and document automation platform accelerating workflow turnaround by **60%**) and **Vera QR** (multi-tenant hospitality and payment SaaS integrated with Stripe and iyzico).

Co-Founder & Lead Systems Architect — Kürşat Platform — **Istanbul & Ankara, Türkiye**

- Led a cross-functional engineering team to architect, build, and launch a sovereign, nationwide cross-platform social and civic network (iOS & Android) in strategic partnership with a **major national political party in Türkiye**, executing full-scale production rollout across the App Store and Google Play.
- Engineered high-concurrency distributed backend services, low-latency WebSocket messaging, live-streaming broadcast infrastructure, algorithmic feed ranking, and automated anti-bot/DDoS defense sustaining peak nationwide campaign traffic with zero downtime.

Selected End-to-End Systems & Open Source — github.com/DevKursat — **10+ Years | 100+ Repositories**

- Over 10 years of active software engineering, architecting and shipping **5+ commercial and consumer platforms** from zero to production across iOS, Android, and Web—including **VoltNet** (unified geospatial EV charging network cutting discovery friction by **~40%**), **Unutma.** (regulatory-compliant AI civic postal automation across **81 provinces**), **Lusid AI**, and **İyilik Zinciri**—backed by 100+ repositories.

TECHNICAL SKILLS

Systems & Backend Architecture: TypeScript, JavaScript (ES6+), Python, Node.js, SQL, C, PHP, PostgreSQL (Multi-Tenant RLS), Supabase (Edge Functions, Realtime), MongoDB, Redis, REST & WebSocket APIs

Application Security & Infrastructure: Offensive & Defensive Security Auditing, Penetration Testing, OWASP Top 10 Hardening, OSINT & Investigative Data Pipelines, Digital Forensics Workflows, Docker, Linux/Unix, AWS, Vercel Serverless, CI/CD (GitHub Actions)

AI & Deterministic LLM Systems: LLM Orchestration (OpenAI, Gemini), Generative UI Architecture, Structured Outputs (Zod / JSON Schema), Function Calling & Tool Execution, RAG & Vector Databases (pgvector)

Frontend, Mobile & Payments: Next.js (App Router, SSR/ISR), React.js, React Native (iOS & Android), Tailwind CSS, Mapbox GL, Stripe & iyzico Payment Gateways

EDUCATION

Ankara University — Bachelor's Degree in E-Commerce & Technology Management — **Türkiye**

LANGUAGES & REFERENCES

Languages: Turkish (Native) · English (Professional Working Proficiency)

Professional Reference: İlhan Göktaş — Founder & Chief Scientist, Korkut Technologies (korkuttech.com)