

ALEX AMIRYAN

Senior AI Engineer · Security Specialist

Yerevan, Armenia (UTC+4) · Available worldwide remote · Building production systems since 2005

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SUMMARY

Senior software engineer **building production systems since 2005**, specializing in **production AI integration** and **security-critical systems**. I ship complete, production-grade AI-integrated products in **days, not weeks** — and bring two decades of cryptography and secure-systems experience to AI work that touches sensitive data.

Recent: a complete AI-powered medical booking system shipped in 4 days; an enterprise multimodal AI analysis platform with on-premise LLM inference, built from the ground up. Earlier: founded **Stingle Photos** — an end-to-end encrypted backup app with 100,000+ users, recognized by *Ars Technica*; led engineering for French-market platforms serving 1.5M+ users.

Trilingual (English, Russian, Armenian) for business communication. Comfortable across EU and US time zones.

WHAT I DO FOR CLIENTS

- Integrate **LLMs (Claude, Gemini, GPT, Vapi, Retell)** into real production systems so they ship to end users, not stay as demos.
- Architect and **deliver full-stack AI-driven applications end to end** — auth, payments, multi-tenancy, admin tooling, observability, deployment — using AI-orchestrated development to compress weeks of work into days.
- Bring **security and cryptography depth** where AI features touch sensitive data — healthcare, finance, identity, regulated industries.
- Build **on-premise and private-deployment AI systems** for clients with data-sovereignty or compliance constraints — Ollama, vector search, RAG over multimodal corpora.

SELECTED RECENT PROJECTS

Enterprise Multimodal AI Analysis Platform^{2023 – 2025}

Architected and built from the ground up: a production system for ingesting, indexing, and querying large-scale unstructured data (audio, text, transcripts) via natural-language LLM queries over the corpus. Deployed on-premise for a security-focused enterprise client with strict data-sovereignty requirements. Designed and implemented the full pipeline: ingestion, transcription, embedding, vector indexing, query orchestration, role-based access. Proprietary; not publicly demonstrable.

Stack: Python, Apache Druid, ClickHouse, on-premise Ollama (private LLM inference), vector search.

AI Medical Booking System²⁰²⁶

Production booking platform for a private medical practice, delivered in **4 days**. Telegram bot interface for patients, Gemini-powered natural-language scheduling, full admin panel, complete patient records management. Patients schedule and reschedule through natural conversation; staff review and override via dashboard.

Stack: Python, Telegram Bot API, Gemini API, PostgreSQL.

Stingle Photos — End-to-End Encrypted Cloud Gallery*2018 – Present*

Founded company; architected and shipped open-source E2E encrypted photo backup application to **100,000+ users**. Featured by *Ars Technica*. Designed full cryptographic protocol using **libsodium** — authenticated symmetric encryption, public-key cryptography, and key derivation. Cross-platform: iOS, Android, server, infrastructure.

EXPERIENCE

Founder & CEO — Stingle Inc., Delaware, USA *Jun 2018 – Present*

- Architected and launched Stingle Photos serving 100,000+ users; designed cryptographic infrastructure recognized by independent privacy and security press.
- Bootstrapped, full-stack across iOS, Android, web, server, and cloud infrastructure.

Team Lead — Security & AI Engineering — Software Development Company, Yerevan (Remote) *Jul 2020 – Dec 2025*

- Led engineering team delivering security-focused products for high-risk enterprise clients with strict international compliance requirements.
- Architected and shipped multiple complex projects from the ground up, including the multimodal AI analysis platform described above.
- Stack: C# .NET (desktop and web), Python, Apache Druid, ClickHouse, on-premise Ollama for private LLM workloads.

Senior Java Developer — Adobe (formerly Workfront), Remote *Sep 2019 – Jun 2020*

- Developed enterprise Java modules for Workfront's task-management platform, used by thousands of large-enterprise users; focus on scalability and reliability.

Founder & CEO — Code Factory LLC, Yerevan, Armenia *May 2013 – Aug 2019*

- Built engineering studio in partnership with Adservicesplus SRL (France); developed high-traffic dating platforms with 1.5M+ users as lead architect and developer.
- Designed and executed migration from on-premise to AWS infrastructure.

Senior Developer and Team Lead — Web-Media LLC, Yerevan, Armenia *Jan 2007 – May 2013*

- Managed software development team for top French-speaking dating platforms (France, Belgium, Switzerland).
- Built custom open-source PHP framework (Stingle) running production traffic across multiple high-traffic sites.
- Operated Linux server infrastructure with zero security breaches across full tenure.

Web Developer — Fluger LLC, Yerevan, Armenia *Feb 2006 – Jan 2007*

- Full-stack web development for international clients.

Web Developer — Armino, Yerevan, Armenia *Jan 2005 – Jan 2006*

- First professional engineering role; full-stack web development.

TECHNICAL SKILLS

AI / LLM Integration Claude API, Gemini API, OpenAI/GPT; SSE streaming for real-time AI interfaces; agentic patterns; private-deployment LLMs via Ollama; vector search and RAG over multimodal corpora; voice AI (Vapi, Retell); AI-powered Telegram and chat interfaces.

Generative Media & Visual AI Flux (image generation); ComfyUI (visual AI workflow orchestration); custom LoRA training and fine-tuning; video generation pipelines; character-consistent generation at scale.

AI-Orchestrated Full-Stack Delivery Ship production applications via Claude Code in modern stacks I architect and deliver rather than hand-author — TypeScript, Next.js, React, Node.js. Two decades of architectural judgment applied to AI-generated code: design, security review, debugging, integration, end-to-end deployment.

Full-Stack Engineering Python, Java (Spring, JEE), C# .NET (desktop and web), PHP.

Security & Cryptography libsodium; end-to-end encryption design; AES-256, RSA, ECC; cryptographic protocol design from first principles; OWASP web security; threat modeling for production systems.

Data & Infrastructure PostgreSQL, MySQL, MSSQL, ClickHouse, Apache Druid; vector search; AWS (EC2, RDS, S3); Docker; Linux administration; CI/CD; database optimization at scale (50M+ row tables).

Architecture Multi-tenant SaaS; payment integrations (Stripe and equivalents); OAuth and SSO; i18n; end-to-end backup strategies; high-availability Linux infrastructure.

RECOGNITION & SPEAKING

Stingle Photos featured by **Ars Technica** (2021): "FOSS mobile app Stingle wants to privately, securely back up your photos."

Speaker, **ArmSec 2018** ("DNS Rebinding Attacks") · **ArmSec 2014** ("Database Storage of User Passwords Done Right") · **OWASP Yerevan 2014** ("SafeCamera Photo Encryption App").

EDUCATION

Master's, Computer Science — National Academy of Sciences, Armenia *2008 – 2010*

Specialization: software development, networking protocols, cryptography. Thesis: open-source Linux server administration panel (*Servereach, GPL-licensed*).

Bachelor's, Computer Science — European Regional Academy of ICT, Armenia *2004 – 2008*

LANGUAGES

English — fluent, business-level · **Russian** — native · **Armenian** — native

ENGAGEMENT & AVAILABILITY

Open to long-term retainer engagements, contract project work, and fractional senior engineering roles.

Working hours overlap comfortably with EU, US East Coast, and US West Coast.

Preferred engagement size: 40 – 60 hours per month, 1 – 2 concurrent clients. Available to start within 1 – 2 weeks of agreement.